						DEPARTMENT	OF NA	OF UTAH TURAL RESC GAS AND MI			AMENI	FO DED REPOR	RM 3	
		AP	PLICATION	FOR F	PERM	IIT TO DRILL				1. WELL NAME and N	UMBER NBU 922	-34F4CS		
2. TYPE O	F WORK	DRILL NEW WELL	REENTE	ER P&A	A WELI	L DEEPEN	WELL ()		3. FIELD OR WILDCA	T NATURAL	BUTTES		
4. TYPE O	F WELL	Ga	as Well	Coalbe	ed Met	thane Well: NO				5. UNIT or COMMUNI	TIZATION NATURAL		ENT NAM	IE
6. NAME C	F OPERATOR		KERR-MCGEE C	OIL & G	AS ON	NSHORE, L.P.				7. OPERATOR PHONI	720 92	9-6515		
8. ADDRES	SS OF OPERAT		P.O. Box 1737	79, De	enver,	CO, 80217				9. OPERATOR E-MAI		anadarko.	com	
	AL LEASE NUM	BER			11. M	INERAL OWNERS		·	· O	12. SURFACE OWNER	SHIP			
	΄ ι	JTU-0149077 OWNER (if box 12 :	- 'fee'\		FEI	DERAL (III) IND	IAN () STATE) FEE (FEDERAL IN 14. SURFACE OWNE	DIAN ()	(if box 12	~~	EE(_)
		CE OWNER (if box								16. SURFACE OWNE		`		
IJ. ADDRI	LOG OF SURFA	CL OWNER (II BOX	12 = 100 /								K L-MAIL	(II DOX 12	- 100)	
	N ALLOTTEE OI = 'INDIAN')	R TRIBE NAME			MULT	TEND TO COMM	NS		_	19. SLANT		_		_
					YES	S (Submit C	omming	ling Application	n) NO	VERTICAL DI	RECTION	AL (D) H	ORIZONT	AL 🔵
20. LOCA	TION OF WELL			FO	OTAG	ES	Q1	rr-qtr	SECTION	TOWNSHIP	R/	ANGE	ME	RIDIAN
LOCATIO	N AT SURFACE		20	85 FSI	L 102	26 FWL	1	wsw	34	9.0 S	22	2.0 E		S
Top of U	ppermost Prod	ucing Zone	24	08 FNI	L 21	51 FWL	,	SENW	34	9.0 S	22	2.0 E		S
At Total	Depth		24	08 FNI	L 215	51 FWL		SENW	34	9.0 S	22	2.0 E		S
21. COUN	TY	UINTAH			22. DI	ISTANCE TO NEA		EASE LINE (Fe	et)	23. NUMBER OF ACR	ES IN DRI		Т	
						ISTANCE TO NEA lied For Drilling o	or Com		POOL	26. PROPOSED DEPT		TVD: 897	3	
27. ELEV <i>A</i>	TION - GROUN	ID LEVEL 4989			28. B	OND NUMBER	WYBO	000291		29. SOURCE OF DRIL WATER RIGHTS APPR		MBER IF A	PPLICABI	LE
		1000				Hole, Casing,			mation					
String	Hole Size	Casing Size	Length		ight	Grade & Th		Max Mud	Wt.	Cement		Sacks	Yield	Weight
Surf	11	8.625	0 - 2420	28	3.0	J-55 LT8	&C	0.2		Type V Class G		180 270	1.15	15.8 15.8
Prod	7.875	4.5	0 - 9195	11	1.6	I-80 LT8	&C	12.0	Pre	emium Lite High Stre	ngth	310	3.38	12.0
										50/50 Poz		1260	1.31	14.3
						A.	TTACH	IMENTS						
	VER	IFY THE FOLLO	WING ARE A	TTAC	HED	IN ACCORDAN	ICE WI	TH THE UTA	H OIL AND GA	S CONSERVATION (SENERA	L RULES		
⊯ wi	ELL PLAT OR M	AP PREPARED BY L	LICENSED SUR	VEYOR	R OR E	ENGINEER		№ сом	PLETE DRILLING	PLAN				
AF	FIDAVIT OF STA	TUS OF SURFACE	OWNER AGREI	EMENT	T (IF F	EE SURFACE)		FORM	5. IF OPERATOR	IS OTHER THAN THE L	EASE OW	NER		
DIF	RECTIONAL SUI	RVEY PLAN (IF DIR	ECTIONALLY O	R HO	RIZON	NTALLY DRILLED)	№ торо	GRAPHICAL MAF					
NAME Gi	na Becker		TITLE Regu	latory	Analy	rst II			PHONE 720 9	29-6086				
SIGNATU	RE		DATE 01/0	3/201	3				EMAIL gina.be	cker@anadarko.com				
API NUM	BER ASSIGNED	43047535060000				APPROVAL								

Kerr-McGee Oil & Gas Onshore. L.P.

NBU 922-34F4CS

Surface: 2085 FSL / 1026 FWL NWSW BHL: 2408 FNL / 2151 FWL SENW

Section 34 T9S R22E

Uintah County, Utah Mineral Lease: UTU-0149077

ONSHORE ORDER NO. 1

DRILLING PROGRAM

1. & 2. <u>Estimated Tops of Important Geologic Markers</u>: Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:

<u>Formation</u>	<u>Depth</u>	<u>Resource</u>
Uinta Green River Birds Nest Mahogany Wasatch Mesaverde Sego TVD	0 - Surface 1,203' 1,510' 1,965' 4,386' 6,721' 8,973'	Water Water Gas Gas Gas
TD	9,195'	

3. <u>Pressure Control Equipment</u> (Schematic Attached)

Please refer to the Standard Operating Practices on file with the BLM Vernal Field Office.

4. **Proposed Casing & Cementing Program:**

Please refer to the attached Drilling Program

5. <u>Drilling Fluids Program:</u>

Please refer to the attached Drilling Program

6. <u>Evaluation Program:</u>

Please refer to the attached Drilling Program

Drilling Program 2 of 4

7. Abnormal Conditions:

Maximum anticipated bottom hole pressure calculated at 8973' TVD, approximately equals 5,474 psi (0.61 psi/ft = actual bottomhole gradient)

Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD

Maximum anticipated surface pressure equals approximately 3,523 psi (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot, per Onshore Order No. 2).

Per Onshore Order No. 2 - Max Anticipated Surf. Press.(MASP) = (Pore Pressure at next csg point-(0.22 psi/ft-partial evac gradient x TVD of next csg point))

8. Anticipated Starting Dates:

Drilling is planned to commence immediately upon approval of this application.

9. <u>Variances:</u>

Please refer to the Standard Operating Practices on file with the BLM Vernal Field Office.

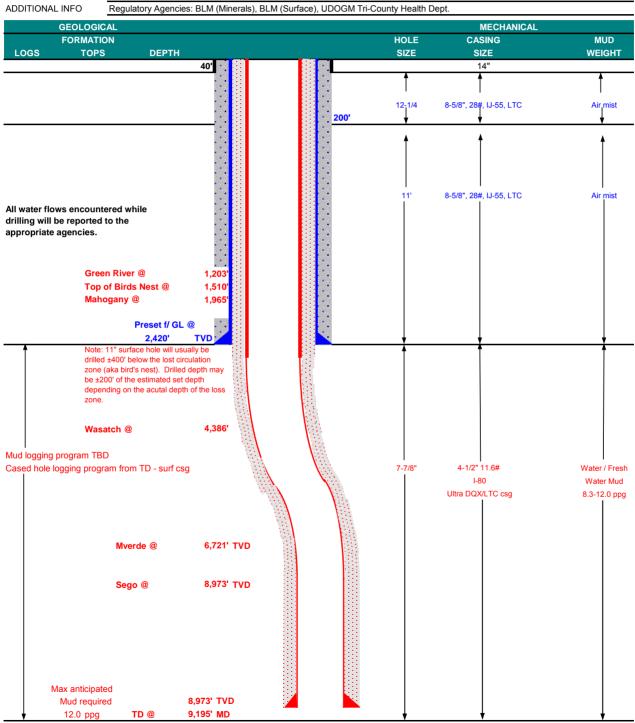
10. <u>Other Information:</u>

Please refer to the attached Drilling Program.



KERR-McGEE OIL & GAS ONSHORE LP DRILLING PROGRAM

COMPANY NAME KER	R-McGEE C	IL & GAS ONS	HORE LP		DATE	Novemb	er 27, 2012	
WELL NAME NB	J 922-34F	4CS			TD	8,973'	TVD	9,195' MD
FIELD Natural Butte	S	COUNTY	Uintah ST	ΓΑΤΕ Uta	h	FINIS	HED ELEVATION	4,989'
SURFACE LOCATION	NWSW	2085 FSL	1026 FWL	Sec 34	T 9S	R 22E		
	Latitude:	39.990990	Longitude:	-109.43	1916		NAD 83	
BTM HOLE LOCATION	SENW	2408 FNL	2151 FWL	Sec 34	T 9S	R 22E		
	Latitude:	39.993173	Longitude:	-109.42	7902		NAD 83	
OBJECTIVE ZONE(S)	Wasatch/N	/lesaverde						
ADDITIONAL INFO	Regulatory	Agencies: BLM	(Minerals), BLM	(Surface)	, UDOGM	Tri-County Heal	th Dept.	





KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

CASING PROGRA	<u>M</u>								DESIGN	FACTORS	
										LTC	DQX
	SIZE	INTE	ERVAL		WT.	GR.	CPLG.	BURST	COLL	APSE	TENSION
CONDUCTOR	14"	0	-40'								
								3,390	1,880	348,000	N/A
SURFACE	8-5/8"	0	to	2,420	28.00	IJ-55	LTC	2.23	1.66	5.86	N/A
								7,780	6,350	223,000	267,035
PRODUCTION	4-1/2"	0	to	5,000	11.60	I-80	DQX	1.11	1.13		3.07
								7,780	6,350	223,000	267,035
	4-1/2"	5,000	to	9,195'	11.60	I-80	LTC	1.11	1.13	5.61	

Surface Casing:

(Burst Assumptions: TD =

12.0 ppg) 0.73 psi/ft = frac gradient @ surface shoe

Fracture at surface shoe with 0.1 psi/ft gas gradient above

(Collapse Assumption: Fully Evacuated Casing, Max MW)

(Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

Production casing:

(Burst Assumptions: Pressure test with 8.4ppg @ (Collapse Assumption: Fully Evacuated Casing, Max MW)

7000 psi)

0.61 psi/ft = bottomhole gradient

(Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

CEMENT PROGRAM

	FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE LEAD	500'	Premium cmt + 2% CaCl	180	60%	15.80	1.15
Option 1		+ 0.25 pps flocele				
TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt	270	0%	15.80	1.15
		+ 2% CaCl + 0.25 pps flocele				
SURFACE		NOTE: If well will circulate water to	surface, op	tion 2 will b	e utilized	
Option 2 LEAD	1,920'	65/35 Poz + 6% Gel + 10 pps gilsonite	180	35%	11.00	3.82
		+ 0.25 pps Flocele + 3% salt BWOW				
TAIL	500'	Premium cmt + 2% CaCl	150	35%	15.80	1.15
		+ 0.25 pps flocele				
TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.80	1.15
PRODUCTION LEAD	3,885'	Premium Lite II +0.25 pps celloflake + .4% FL-52	310	35%	12.00	3.38
		+ .3% R-3 + .5 lbs/sk Kol-Seal + 6%Bentonite II +				
		1.2% Sodium Metasilicate + .05 lbs/sk Static Free				
TAIL	5,310'	50/50 Poz/G + 10% salt + .05 lbs/sk Static Free	1,260	35%	14.30	1.31
		+ 1.2% Sodium Metasilicate + .5 % EC-1				
		+.002 gps FP-6L + 2% Bentonite II				

^{*}Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE

Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe

PRODUCTION

Float shoe, 1 jt, float collar. 15 centralizers for a Mesaverde and 20 for a Blackhawk well.

centralizer on the first 3 joints and one every third joint thereafter.

ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

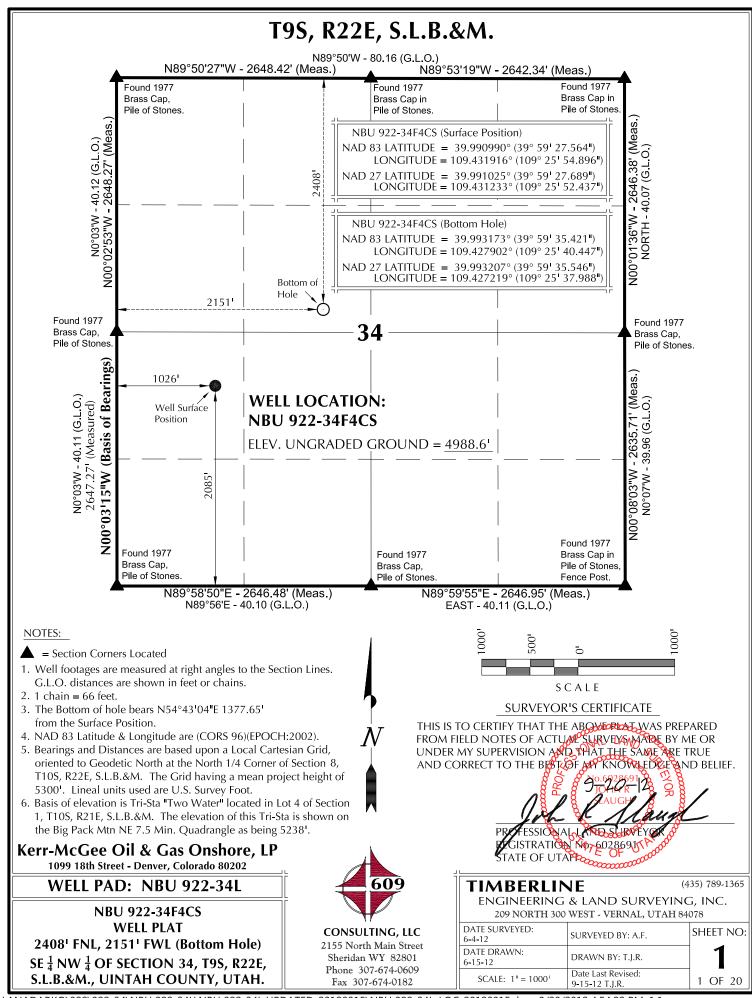
BOPE: 11" 5M with one annular and 2 rams. The BOPE will be installed before the production hole is drilled and tested to 5,000 psi (annular to 2,500 psi) prior to drilling out the surface casing shoe. Record on chart recorder and tour sheet. Function test rams on each trip. Maintain safety valve and inside BOP on rig floor at all times. Most rigs have top drives; however, if used, the Kelly is to be equipped with upper and lower kelly valves.

Surveys wil	l ha takan	at 1 000'	minimum	intonvale

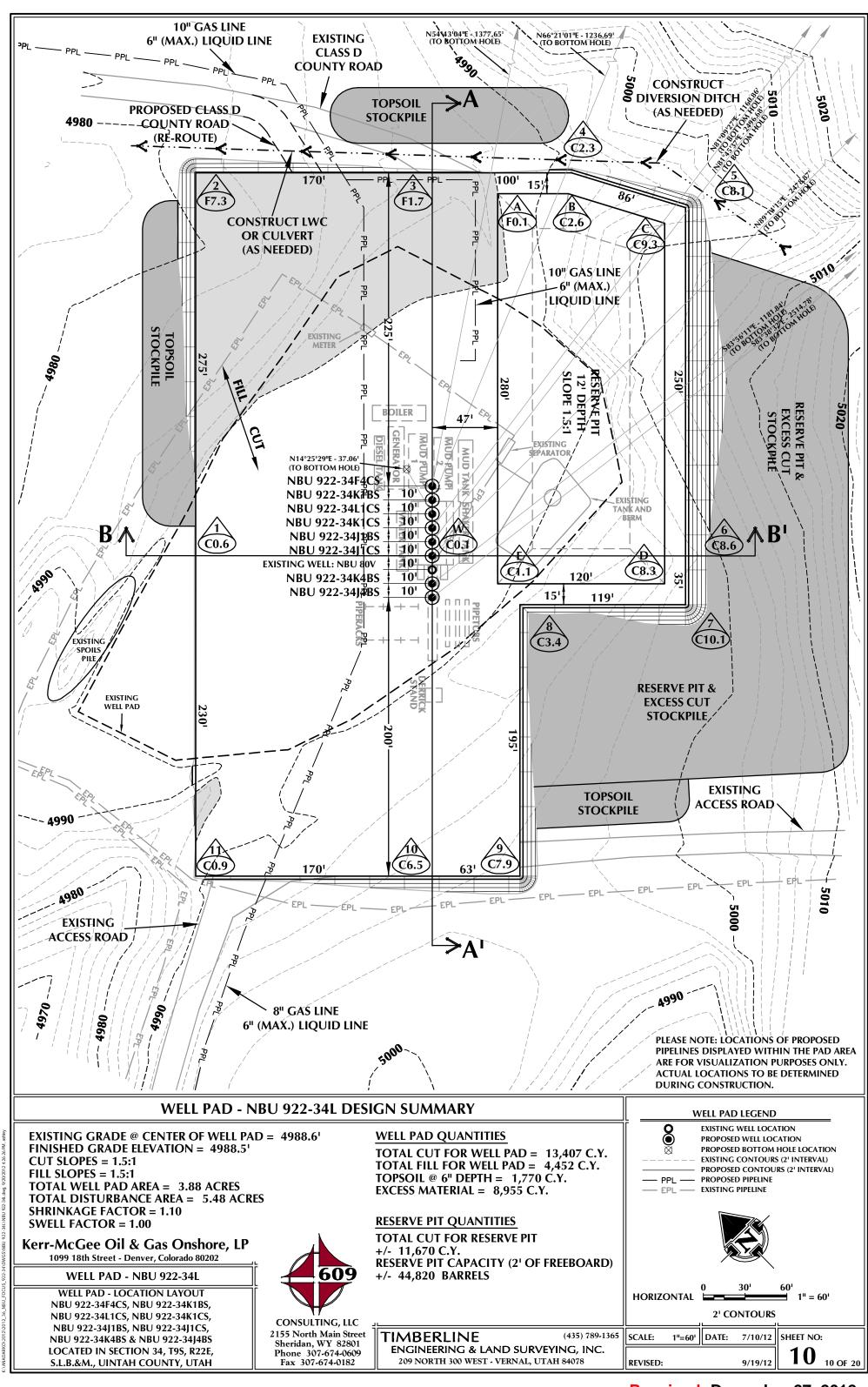
Most rigs have PVT System for mud monitoring. If no PVT is available, visual monitoring will be utilized.

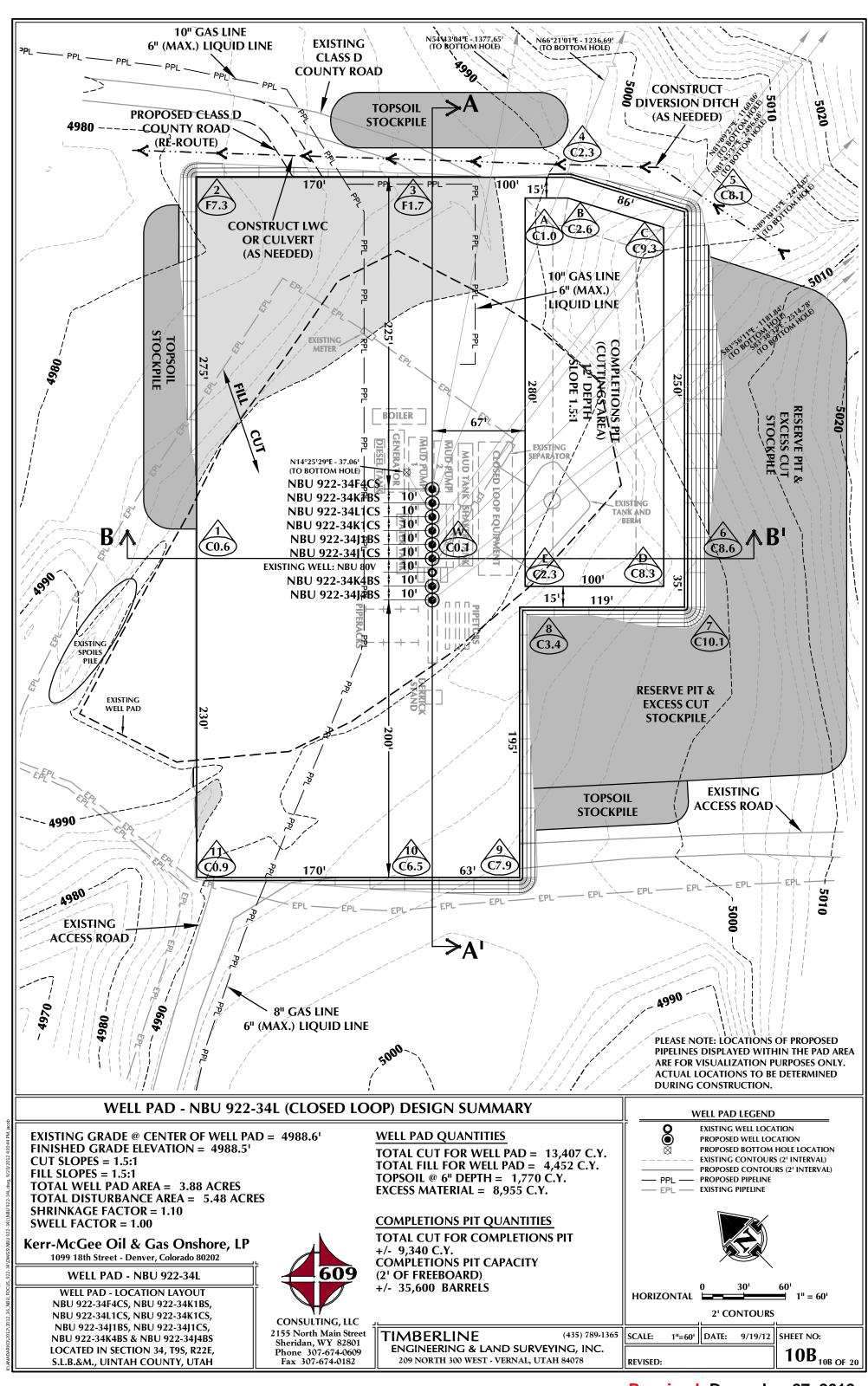
	IF extreme mud losses are ob-	served OR cement doesn't reach surface on a well on the pad, a DV Tool may be us	ed. With C	ement Baskets above and Below it.
DRILLING	ENGINEER:		DATE:	
		Nick Spence / John Tuckwiller / Brian Cocchiere / Tyler Elliot		
DRILLING	SUPERINTENDENT:		DATE:	
		Kenny Gathings / Lovel Young	-	

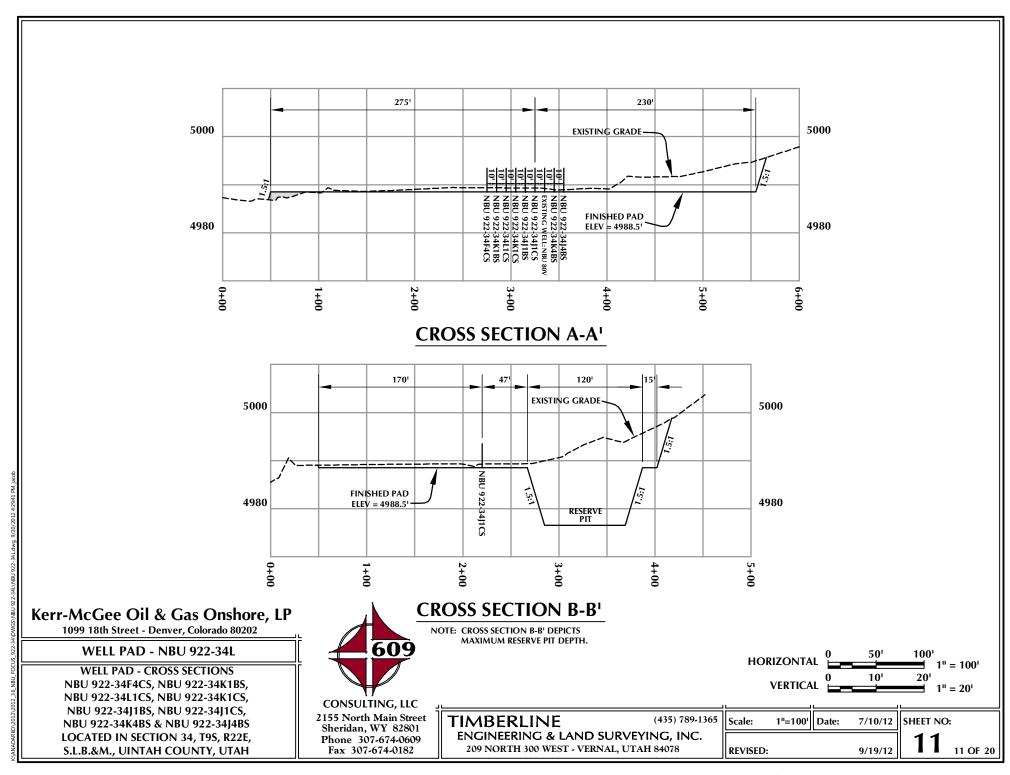
^{*}Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

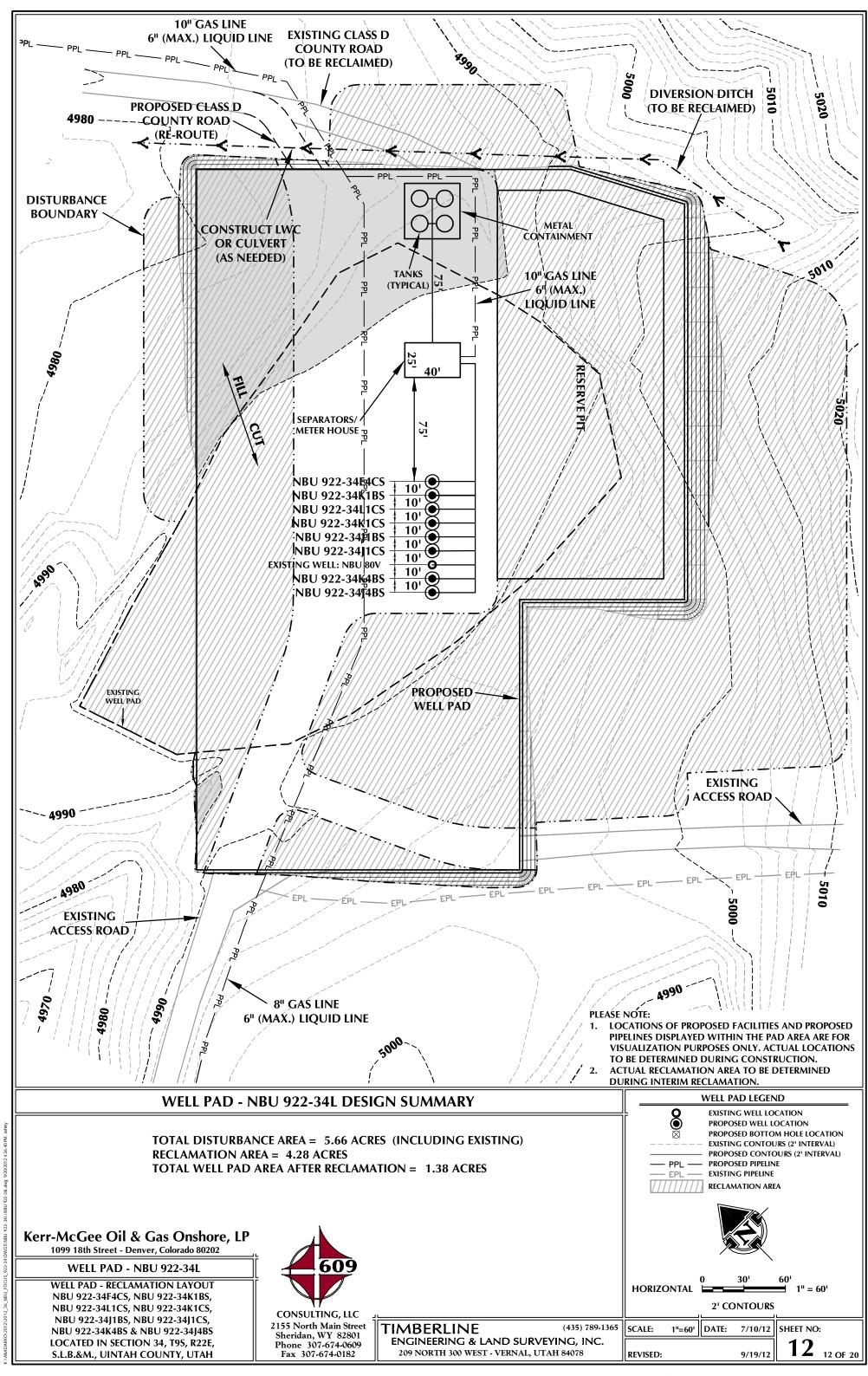


VA/ELL NIA LE		Dog	SURFACE PO:	FACE POSITION NAD27				BOTTOM HOLE NAD83 NAD27					
WELL NAME	LATITUDE	LONGITU	IDE LATITU		IGITUDE	FOOTAGES	LATIT		083 LONGITUDE	LATITUDE	LONGITUDE	FOOTAGES	
NBU	39°59'27.564	" 109°25'54.	896" 39°59'27	.689" 109°2	5'52.437"	2085¹ FSL	39°59'3		109°25'40.447"		109°25'37.988"	2408' FNL	
922-34F4CS NBU	39.990990° 39°59'27.493	109.431916 109°25'54.		10311	31233° .5'52.527"	1026' FWL 2078' FSL	39.993° 39°59'3		109.427902° 109°25'40.432"	39.993207° 39°59'32.515"	109.427219° 109°25'37.974"	2151' FWL 2574' FSL	
922-34K1BS NBU	39.990970° 39°59'27.422	109.431940		5° 109.4	31257°	1019' FWL	39.9923 39°59'2		109.427898°	39.992365°	109.427215°	2152' FWL	
922-34L1CS	39°59°27.422 39.990951°	" 109°25'55. 109.43196!	0,0	1.00 =	.5'52.616" 31282°	2071' FSL 1012' FWL	39.9910		109°25'54.956" 109.431932°	39°59'27.901" 39.991084°	109°25'52.497" 109.431249°	2107' FSL 1021' FWL	
NBU 922-34K1CS	39°59'27.351 39.990931°	.05 25 55.		1.03 =	5'52.706"	2064¹ FSL	39°59'2 39.9914		109°25'40.430" 109.427897°	39°59'29.235" 39.991454°	109°25'37.972" 109.427214°	2242' FSL 2152' FWL	
NBU	39°59'27.280	109.431990 109°25'55		10011	31307° .5'52.795"	1005' FWL 2057' FSL	39°59'3	30.806"	109.427897° 109°25'23.514"	39°59'30.930"		2414' FSL	
922-34J1BS NBU	39.990911° 39°59'27.209	109.432015			31332° .5'52.884"	998' FWL 2050' FSL	39.9918 39°59'2		109.423198° 109°25'23.506"	39.991925° 39°59'27.650"	109.422516° 109°25'21.048"	1821 FEL 2082 FSI	
922-34J1CS	39.990891°	109.432040)° 39.99092	6° 109.4	31357°	991' FWL	39.9909	979°	109-23-23.306 109.423196°	39.991014°	109.422513°	1821' FEL	
NBU 922-34K4BS	39°59'27.068 39.990852°	" 109°25'55. 109.432090		1.00 -	5'53.063" 31407°	2035' FSL 977' FWL	39°59'2 39.990!		109°25'40.428" 109.427897°	39°59'25.954" 39.990543°	109°25'37.969" 109.427214°	1910' FSL 2152' FWL	
NBU	39°59'26.997	" 109°25'55.	612" 39°59'27	.121" 109°2	5'53.153"	2028' FSL	39°59'2	24.235"	109°25'23.510"	39°59'24.360"	109°25'21.053"	1749' FSL	
922-34J4BS	39.990832° 39°59'27.138	109.432114 109°25'55.			31431° .5'52.974"	970' FWL 2042' FSL	39.9900	065°	109.423197°	39.990100°	109.422515°	1822' FEL	
NBU 80V	39.990872°	109.432065		1.00 =	31382°	984' FWL							
						- From Surface							
WELL NAME NBU	NORTH	EAST	WELL NAME NBU	NORTH	EAS	NIDII	NAME	NOR		NBU WELL NAM		EAST	
922-34F4CS	795.7'	1124.6'	922-34K1BS	496.1	1132	.8 922-3		35.9		922-34K1C		1147.1'	
WELL NAME NBU	NORTH	EAST	NBU NAME	NORTH	EAS	NIDLI	NAME	NOR		NBU WELL NAM		EAST	
922-34J1BS	357.8'	2470.9'	022 241166	33.01	2478	./ 022.2	4K4BS	-124	.8' 1175.2'	922-34J4BS	-278.5	2499.31	
	The Chist H.	O CHISH WILL SAN TOO S	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	180 97 180 97 180 97	A N14' Bo	z=14.424 °25'29"E - ottom of F	37.06		M24 43	1778° 1000 1000 1000 1000 1000 1000 1000 10	1.15750°	86'-	
	T. O. C. S.	CASSINA HISTORY OF SOLUTION OF	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	(6) 60 0 181 92 181 80 80 180 922 181 80 80 180 922 181 80 80 180 180 180 180 180 180 180 1	A N14' Bo	Az=14.424 °25'29"E- ottom of F	- 37.06 lole 	9°14'' To Bot	15"E - 2478 tom Hole) 9.23750°	AZ=8° (TO BOTO) AZ=8° (TO BO N81°09'2 N81°4 (TO BO AZ= S83°38'3 (TO BOTO) (TO BOTO)		le) 3°	
Kerr-McC 1099 13 WELL WELLS - N NBU	S C A L E Gee Oil 6 8th Street - De L PAD - PAD INTE NBU 922-34F4 922-34J1BS, 922-34J1BS,	& Gas Cenver, Color NBU 92 RFERENCE ICS, NBU 922-34 NBU 922-34 NBU 922-34	Onshore, lado 80202 22-34L PLAT 2-34K1BS, k1CS, J1CS,	4 18 5 6 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	CONS	OZ=14.424 °25'29"E- ottom of F	37.06 Hole N8' (T	9°14'' To Bott Az=8 Datte 6-4-1	MBERL ENGINEERIN 209 NORTH SURVEYED:	Az = 8	1.15750° ttom Hole) 27"E - 1160.5 5'37"E - 249 Bottom Hole 278.76026 Bottom Hole 11"E - 1181. 2"E - 2514.5 tom Hole) 5.35778° (4 SURVEYING RNAL, UTAH 846 BY: A.F.	84' 78' 35) 789-1365 G, INC. 278 SHEET NO	
Kerr-McC 1099 13 WELL WELLS - N NBU NBU NBU	S C A L E Gee Oil & 8th Street - De L PAD - PAD INTEL 18BU 922-34F4 922-34L1CS,	& Gas Cenver, Color NBU 92 RFERENCE ICS, NBU 922-34 NBU 922-34 NBU 922-34 NBU 922-34	Onshore, lado 80202 22-34L PLAT 2-34K1BS, K1CS, J1CS, J4J4BS	4 18 5 6 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	CONSI 2155 No Sherida	609 ULTING, LL	37.06 Hole N88 (T	9°14'' To Bott Az=8 Datte 6-4-1	MBERL NGINEERIN 209 NORTH E SURVEYED: 2 E DRAWN:	AZ=8 (TO BOTUE) (SO 21 OTUE) (SO 21 OTUE) (TO BO N81°09'2 N81°4 (TO BOTUE) (1.15750° ttom Hole) 27"E - 1160.5 5'37"E - 249 Bottom Hole 278.76026 Bottom Hole 11"E - 1181. 2"E - 2514.5 tom Hole) 5.35778° (4 SURVEYING RNAL, UTAH 846 BY: A.F.	84' 78' 35) 789-1365 G, INC.	









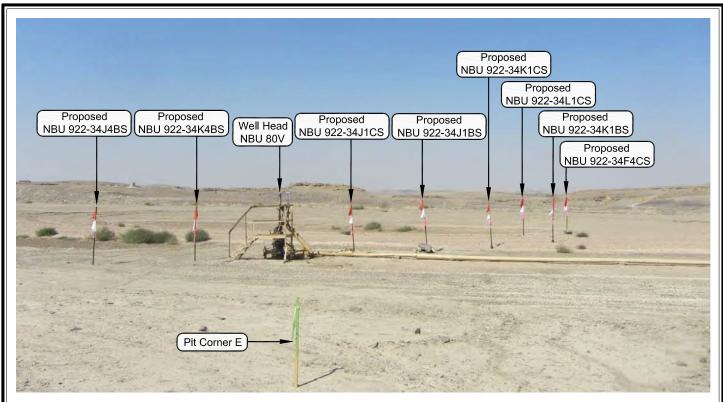


PHOTO VIEW: FROM PIT CORNER E TO LOCATION STAKE





PHOTO VIEW: FROM BEGINNING OF PROPOSED ROAD

CAMERA ANGLE: SOUTHWESTERLY

Kerr-McGee Oil & Gas Onshore, LP

1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 922-34L

LOCATION PHOTOS NBU 922-34F4CS, NBU 922-34K1BS, NBU 922-34L1CS, NBU 922-34K1CS, NBU 922-34J1BS, NBU 922-34J1CS, NBU 922-34K4BS & NBU 922-34J4BS LOCATED IN SECTION 34, T9S, R22E, S.L.B.&M., UINTAH COUNTY, UTAH.



CONSULTING, LLC

2155 North Main Street Sheridan WY 82801 Phone 307-674-0609 Fax 307-674-0182

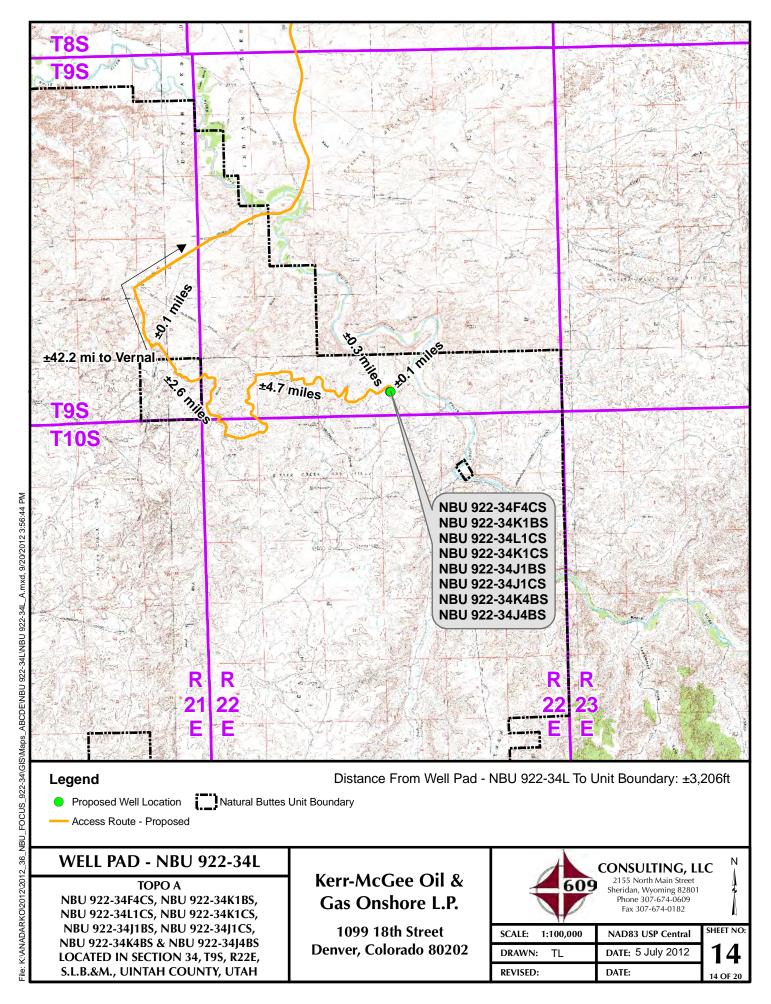
TIMBERLINE

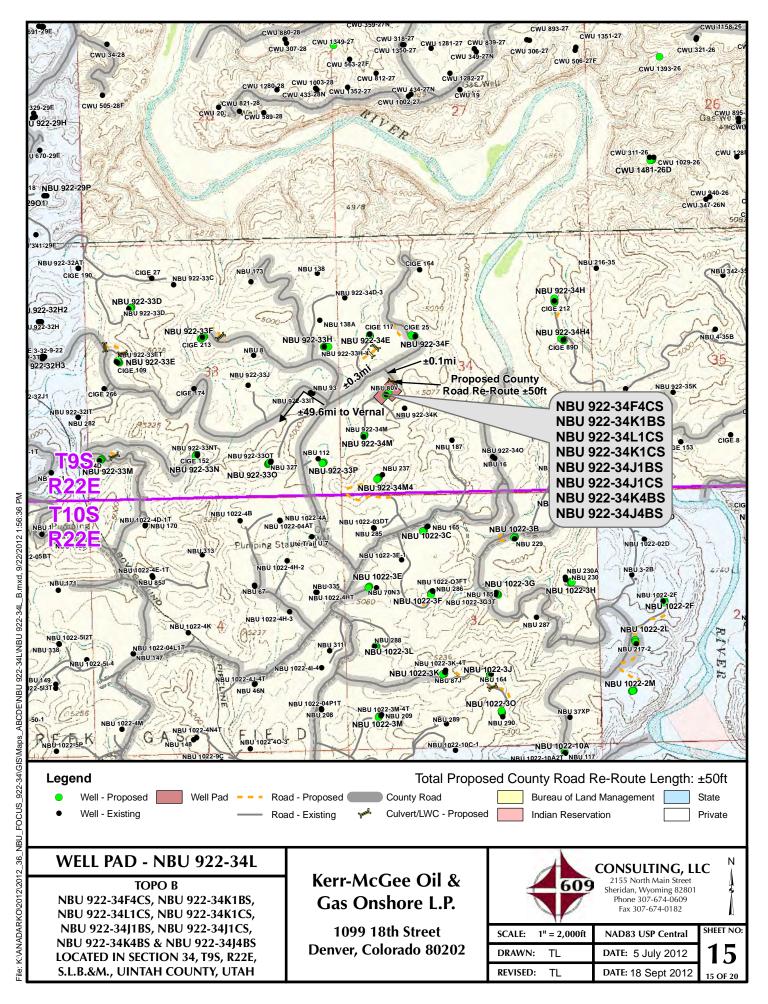
(435) 789-1365

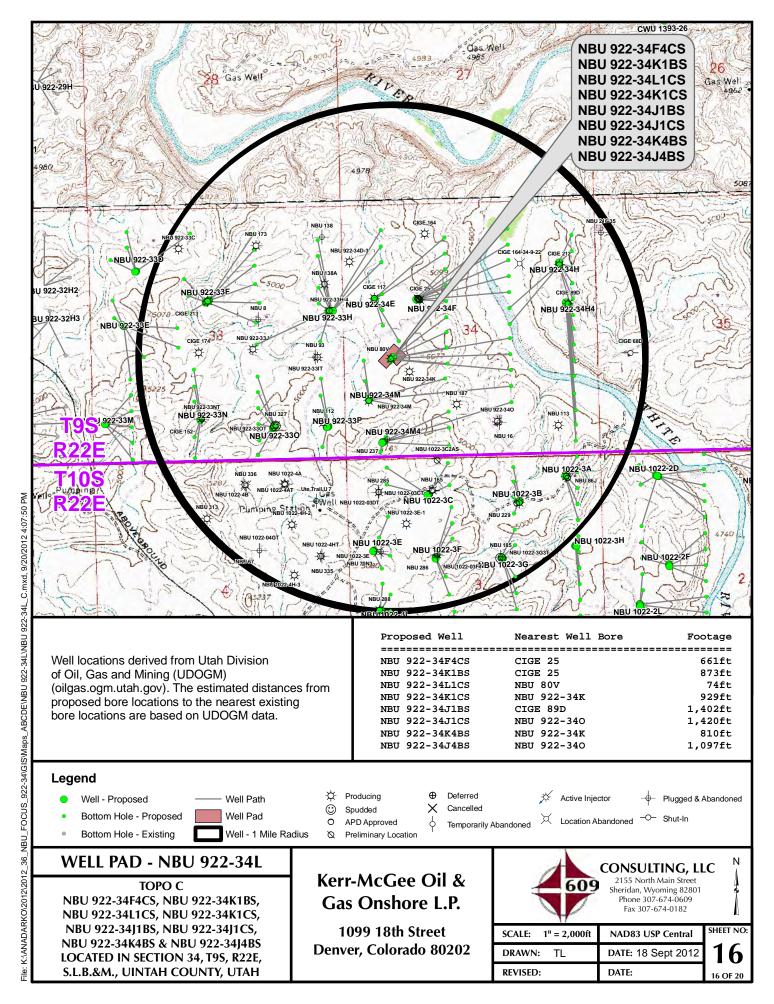
ENGINEERING & LAND SURVEYING, INC. 209 NORTH 300 WEST - VERNAL, UTAH 84078

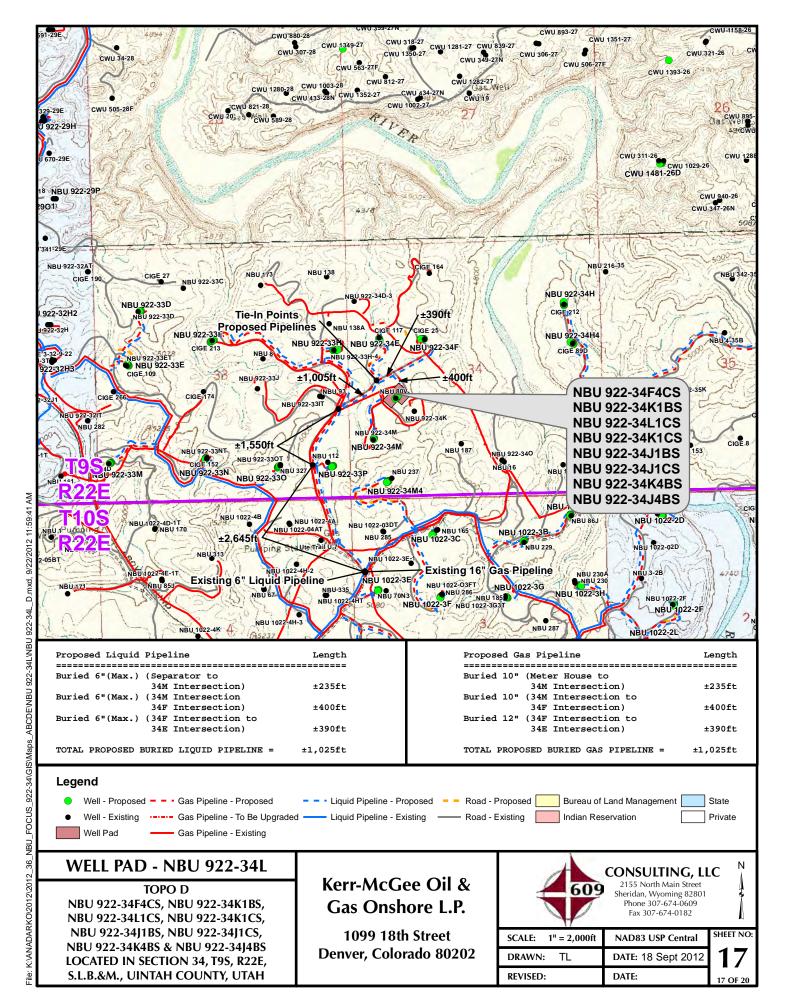
DATE PHOTOS TAKEN: 6-4-12	PHOTOS TAKEN BY: A.F.	SHEET NO:
DATE DRAWN: 6-15-12	DRAWN BY: T.J.R.	13
Date Last Revised:		12 OF 20

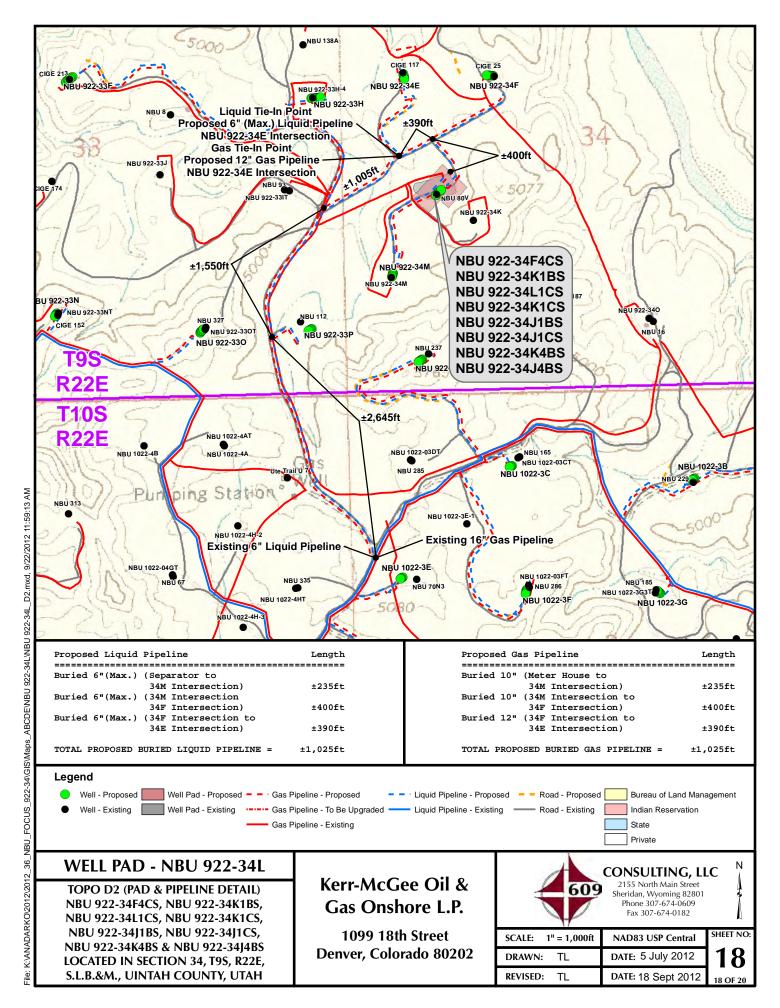
S:\ANADARKO\922\922-34\NBU 922-34L\NBU 922-34L UPDATED_20120915\NBU 922-34L_LOC_20120915.dwg, 9/20/2012 4:06:46 PM, 1:1 Received: December 27, 2012

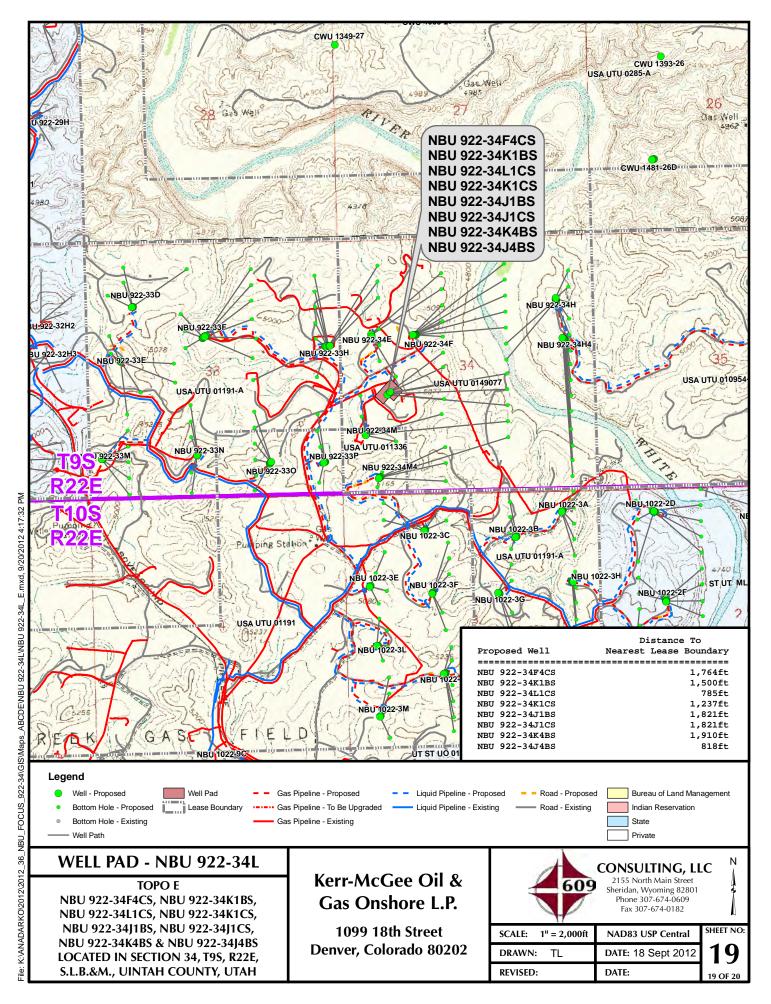












Kerr-McGee Oil & Gas Onshore, LP WELL PAD – NBU 922-34L WELLS – NBU 922-34F4CS, NBU 922-34K1BS, NBU 922-34L1CS, NBU 922-34K1CS, NBU 922-34J1BS, NBU 922-34J1CS, NBU 922-34K4BS & NBU 922-34J4BS Section 34, T9S, R22E, S.L.B.&M.

From the intersection of U.S. Highway 40 and 500 East Street in Vernal, Utah, proceed in an easterly, then southerly direction along U.S. Highway 40 approximately 3.3 miles to the junction of State Highway 45; exit right and proceed in a southerly direction along State Highway 45 approximately 20.2 miles to the junction of the Glen Bench Road (County B Road 3260). Exit right and proceed in a southwesterly direction along the Glen Bench Road approximately 18.7 miles to a Class D County Road to the northeast. Exit left and proceed in a northeasterly direction along the Class D County Road approximately 0.1 miles to a second Class D County Road to the southeast. Exit right and proceed in a southeasterly direction along the second Class D County Road approximately 2.6 miles to a third Class D County Road to the east. Exit left and proceed in an easterly, then northeasterly, then southeasterly direction along the third Class D County Road approximately 4.7 miles to a four-way intersection. Proceed through the four-way intersection in a southeasterly direction to a fourth Class D County Road to the northeast. Proceed in a northeasterly direction along the fourth Class D County Road approximately 0.3 miles to a fifth Class D County Road to the southeast. Exit right and proceed in a southeasterly direction along the fifth Class D County Road approximately 0.1 miles to the proposed access road to the south. Follow road flags in a southerly direction approximately 50 feet to the proposed well location.

Total distance from Vernal, Utah to the proposed well location is approximately 50.0 miles in a southerly direction.

SHEET 20 OF 20



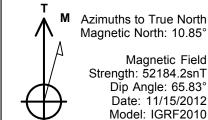
Project: UTAH - UTM (feet), NAD27, Zone 12N

Site: NBU 922-34L PAD Well: NBU 922-34F4CS

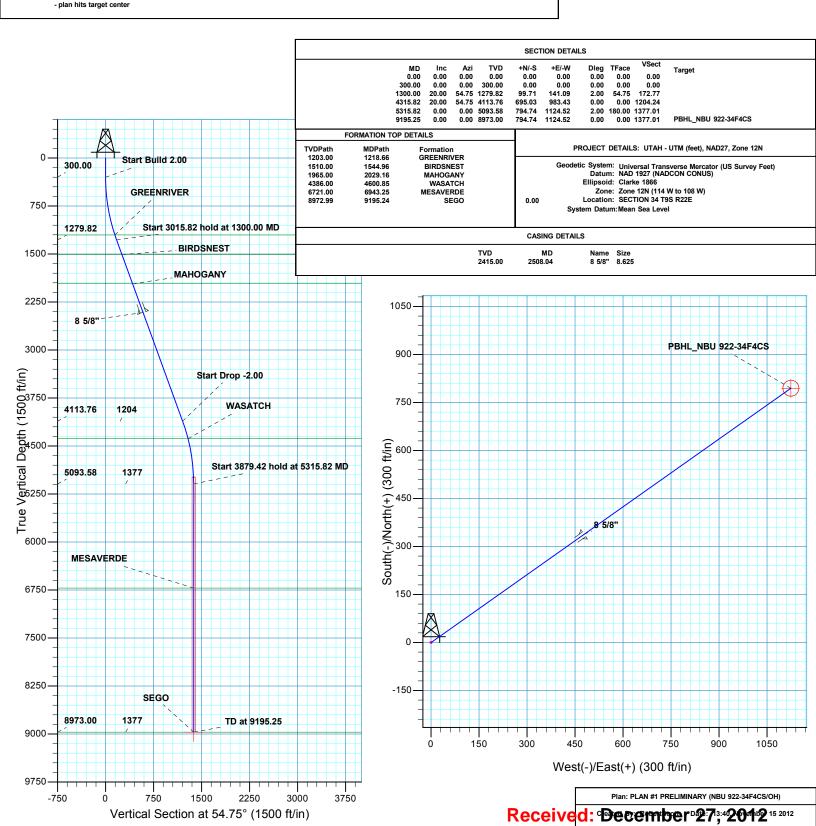
Wellbore: OH

Design: PLAN #1 PRELIMINARY











US ROCKIES REGION PLANNING

UTAH - UTM (feet), NAD27, Zone 12N NBU 922-34L PAD NBU 922-34F4CS

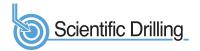
OH

Plan: PLAN #1 PRELIMINARY

Standard Planning Report

15 November, 2012







Database: EDM5000-RobertS-Local

Company: US ROCKIES REGION PLANNING
Project: UTAH - UTM (feet), NAD27, Zone 12N

 Site:
 NBU 922-34L PAD

 Well:
 NBU 922-34F4CS

Wellbore: OH

Design: PLAN #1 PRELIMINARY

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well NBU 922-34F4CS

GL 4989 & KB 4 @ 4993.00ft (ASSUMED) GL 4989 & KB 4 @ 4993.00ft (ASSUMED)

True

Minimum Curvature

Project UTAH - UTM (feet), NAD27, Zone 12N

Map System: Universal Transverse Mercator (US Survey Feet)

Geo Datum: NAD 1927 (NADCON CONUS)

Map Zone: Zone 12N (114 W to 108 W)

Mean Sea Level

Site NBU 922-34L PAD, SECTION 34 T9S R22E

Northing: 14,526,650.96 usft Site Position: Latitude: 39.991050 From: Lat/Long Easting: 2,079,771.90 usft Longitude: -109.431440 **Position Uncertainty:** 0.00 ft Slot Radius: **Grid Convergence:** 1.01 13.200 in

System Datum:

Well NBU 922-34F4CS, 2085 FSL 1026 FWL

 Well Position
 +N/-S
 -9.14 ft
 Northing:
 14,526,642.84 usft
 Latitude:
 39.991025

 +E/-W
 58.02 ft
 Easting:
 2,079,830.07 usft
 Longitude:
 -109.431233

Position Uncertainty 0.00 ft Wellhead Elevation: Ground Level: 4,989.00 ft

Wellbore ОН Magnetics **Model Name** Sample Date Declination **Dip Angle** Field Strength (nT) (°) (°) 12/15/12 IGRF2010 10.85 65.83 52,184

Design	PLAN #1 PRELIMINARY				
Audit Notes:					
Version:	Phase:	PLAN	Tie On Depth:	0.00	
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	(ft)	(ft)	(ft)	(°)	
	0.00	0.00	0.00	54.75	

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,300.00	20.00	54.75	1,279.82	99.71	141.09	2.00	2.00	0.00	54.75	
4,315.82	20.00	54.75	4,113.76	695.03	983.43	0.00	0.00	0.00	0.00	
5,315.82	0.00	0.00	5,093.58	794.74	1,124.52	2.00	-2.00	0.00	180.00	
9,195.25	0.00	0.00	8,973.00	794.74	1,124.52	0.00	0.00	0.00	0.00	PBHL_NBU 922-34F4





Database: EDM5000-RobertS-Local

Company: US ROCKIES REGION PLANNING
Project: UTAH - UTM (feet), NAD27, Zone 12N

Project: UTAH - UTM (feet), NAD Site: NBU 922-34L PAD

Well: NBU 922-34F4CS

Wellbore: OH

Design: PLAN #1 PRELIMINARY

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well NBU 922-34F4CS

GL 4989 & KB 4 @ 4993.00ft (ASSUMED) GL 4989 & KB 4 @ 4993.00ft (ASSUMED)

True

Minimum Curvature

ned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00 200.00	0.00 0.00	0.00 0.00	100.00 200.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2		0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	2.00	54.75	399.98	1.01	1.43	1.75	2.00	2.00	0.00
500.00	4.00	54.75	499.84	4.03	5.70	6.98	2.00	2.00	0.00
600.00	6.00	54.75 54.75	599.45	9.06	12.82	15.69	2.00	2.00	0.00
700.00	8.00	54.75	698.70	16.09	22.77	27.88	2.00	2.00	0.00
800.00	10.00	54.75	797.47	25.12	35.54	43.52	2.00	2.00	0.00
900.00	12.00	54.75	895.62	36.13	51.12	62.60	2.00	2.00	0.00
1,000.00	14.00	54.75	993.06	49.11	69.49	85.10	2.00	2.00	0.00
1,100.00	16.00 18.00	54.75 54.75	1,089.64	64.05	90.63	110.98	2.00	2.00	0.00
1,200.00 1,218.66	18.37	54.75 54.75	1,185.27 1,203.00	80.92 84.29	114.50 119.26	140.21 146.04	2.00 2.00	2.00 2.00	0.00 0.00
		54.75	1,203.00	04.29	119.20	140.04	2.00	2.00	0.00
1,300.00	20.00	54.75	1,279.82	99.71	141.09	172.77	2.00	2.00	0.00
,	20.00 2 hold at 1300.00		1,279.02	99.71	141.09	172.77	2.00	2.00	0.00
1,400.00	20.00	54.75	1,373.78	119.45	169.02	206.97	0.00	0.00	0.00
1,500.00	20.00	54.75	1,467.75	139.19	196.95	241.17	0.00	0.00	0.00
1,544.96	20.00	54.75	1,510.00	148.07	209.51	256.55	0.00	0.00	0.00
BIRDSNEST									
1,600.00	20.00	54.75	1,561.72	158.93	224.88	275.37	0.00	0.00	0.00
1,700.00	20.00	54.75	1,655.69	178.67	252.81	309.58	0.00	0.00	0.00
1,800.00	20.00	54.75	1,749.66	198.41	280.74	343.78	0.00	0.00	0.00
1,900.00	20.00	54.75	1,843.63	218.15	308.67	377.98	0.00	0.00	0.00
2,000.00	20.00	54.75	1,937.60	237.89	336.60	412.18	0.00	0.00	0.00
2,029.16	20.00	54.75	1,965.00	243.65	344.75	422.15	0.00	0.00	0.00
MAHOGAN									
2,100.00	20.00	54.75	2,031.57	257.63	364.53	446.38	0.00	0.00	0.00
2,200.00	20.00	54.75	2,125.54	277.37	392.46	480.59	0.00	0.00	0.00
2,300.00	20.00	54.75	2,219.51	297.11	420.40	514.79	0.00	0.00	0.00
2,400.00	20.00	54.75	2,313.48	316.85	448.33	548.99	0.00	0.00	0.00
2,500.00	20.00	54.75	2,407.45	336.59	476.26	583.19	0.00	0.00	0.00
2,508.04	20.00	54.75	2,415.00	338.18	478.50	585.94	0.00	0.00	0.00
8 5/8"									
2,600.00	20.00	54.75	2,501.42	356.33	504.19	617.39	0.00	0.00	0.00
2,700.00	20.00	54.75	2,595.39	376.07	532.12	651.60	0.00	0.00	0.00
2,800.00	20.00	54.75	2,689.35	395.81	560.05	685.80	0.00	0.00	0.00
2,900.00	20.00	54.75	2,783.32	415.55	587.98	720.00	0.00	0.00	0.00
3,000.00	20.00	54.75	2,877.29	435.29	615.91	754.20	0.00	0.00	0.00
3,100.00	20.00	54.75	2,971.26	455.03	643.84	788.40	0.00	0.00	0.00
3,200.00	20.00	54.75	3,065.23	474.77	671.77	822.61	0.00	0.00	0.00
3,300.00	20.00	54.75	3,159.20	494.51	699.70	856.81	0.00	0.00	0.00
3,400.00	20.00	54.75	3,253.17	514.25	727.63	891.01	0.00	0.00	0.00
3,500.00	20.00	54.75	3,347.14	533.99	755.56	925.21	0.00	0.00	0.00
3,600.00	20.00	54.75	3,441.11	553.73	783.49	959.41	0.00	0.00	0.00
3,700.00	20.00	54.75	3,535.08	573.47	811.42	993.62	0.00	0.00	0.00
3,800.00	20.00	54.75	3,629.05	593.21	839.36	1,027.82	0.00	0.00	0.00
3,900.00	20.00	54.75	3,723.02	612.95	867.29	1,062.02	0.00	0.00	0.00
4,000.00	20.00	54.75	3,816.99	632.69	895.22	1,096.22	0.00	0.00	0.00
4,100.00	20.00	54.75	3,910.95	652.43	923.15	1,130.42	0.00	0.00	0.00
4,200.00	20.00	54.75	4,004.92	672.16	951.08	1,164.63	0.00	0.00	0.00





Database: EDM5000-RobertS-Local

Company: US ROCKIES REGION PLANNING

 Project:
 UTAH - UTM (feet), NAD27, Zone 12N

 Site:
 NBU 922-34L PAD

Well: NBU 922-34F4CS

Wellbore: OH

Design: PLAN #1 PRELIMINARY

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well NBU 922-34F4CS

GL 4989 & KB 4 @ 4993.00ft (ASSUMED) GL 4989 & KB 4 @ 4993.00ft (ASSUMED)

True

Minimum Curvature

nned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,300.00 4,315.82	20.00 20.00	54.75 54.75	4,098.89 4,113.76	691.90 695.03	979.01 983.43	1,198.83 1,204.24	0.00 0.00	0.00 0.00	0.00 0.00
4,400.00	-2.00 18.32	54.75	4,193.27	710.97	1,005.99	1,231.86	2.00	-2.00	0.00
4,500.00	16.32	54.75	4,288.74	728.15	1,030.29	1,261.63	2.00	-2.00	0.00
4,600.00	14.32	54.75	4,385.18	743.39	1,051.86	1,288.04	2.00	-2.00	0.00
4,600.85	14.30	54.75	4,386.00	743.51	1,052.03	1,288.25	2.00	-2.00	0.00
WASATCH									
4,700.00	12.32	54.75	4,482.49	756.69	1,070.67	1,311.07	2.00	-2.00	0.00
4,800.00	10.32	54.75	4,580.54	768.01	1,086.70	1,330.70	2.00	-2.00	0.00
4,900.00	8.32	54.75	4,679.21	777.35	1,099.92	1,346.88	2.00	-2.00	0.00
5,000.00	6.32	54.75	4,778.39	784.70 790.05	1,110.31	1,359.62	2.00	-2.00 -2.00	0.00
5,100.00 5,200.00	4.32 2.32	54.75 54.75	4,877.96 4,977.79	790.05 793.39	1,117.88 1,122.61	1,368.88 1,374.67	2.00 2.00	-2.00 -2.00	0.00 0.00
5,300.00	0.32	54.75 54.75	4,977.79 5,077.75	793.39 794.72	1,124.48	1,374.67	2.00	-2.00 -2.00	0.00
			,						
5,315.82 Start 3879	0.00 12 hold at 5315.8 2	0.00	5,093.58	794.74	1,124.52	1,377.01	2.00	-2.00	0.00
5,400.00	0.00 at 5315.62	0.00	5,177.75	794.74	1,124.52	1,377.01	0.00	0.00	0.00
5,500.00	0.00	0.00	5,277.75	794.74	1,124.52	1,377.01	0.00	0.00	0.00
5,600.00	0.00	0.00	5,377.75	794.74	1,124.52	1,377.01	0.00	0.00	0.00
5,700.00	0.00	0.00	5,477.75	794.74	1,124.52	1,377.01	0.00	0.00	0.00
5,800.00	0.00	0.00	5,577.75	794.74	1,124.52	1,377.01	0.00	0.00	0.00
5,900.00	0.00	0.00	5,677.75	794.74	1,124.52	1,377.01	0.00	0.00	0.00
6,000.00	0.00	0.00	5,777.75	794.74	1,124.52	1,377.01	0.00	0.00	0.00
6,100.00	0.00	0.00	5,877.75	794.74	1,124.52	1,377.01	0.00	0.00	0.00
6,200.00	0.00	0.00	5,977.75	794.74	1,124.52	1,377.01	0.00	0.00	0.00
6,300.00	0.00	0.00	6,077.75	794.74	1,124.52	1,377.01	0.00	0.00	0.00
6,400.00	0.00	0.00	6,177.75	794.74	1,124.52	1,377.01	0.00	0.00	0.00
6,500.00	0.00	0.00	6,277.75	794.74	1,124.52	1,377.01	0.00	0.00	0.00
6,600.00	0.00	0.00	6,377.75	794.74	1,124.52	1,377.01	0.00	0.00	0.00
6,700.00	0.00	0.00	6,477.75	794.74	1,124.52	1,377.01	0.00	0.00	0.00
6,800.00	0.00	0.00	6,577.75	794.74	1,124.52	1,377.01	0.00	0.00	0.00
6,900.00	0.00	0.00	6,677.75	794.74	1,124.52	1,377.01	0.00	0.00	0.00
6,943.25	0.00	0.00	6,721.00	794.74	1,124.52	1,377.01	0.00	0.00	0.00
7,000.00	O.00	0.00	6,777.75	794.74	1,124.52	1,377.01	0.00	0.00	0.00
7,000.00	0.00	0.00	6,877.75	794.74 794.74	1,124.52	1,377.01	0.00	0.00	0.00
7,200.00	0.00	0.00	6,977.75	794.74	1,124.52	1,377.01	0.00	0.00	0.00
7,300.00	0.00	0.00	7,077.75	794.74	1,124.52	1,377.01	0.00	0.00	0.00
7,400.00	0.00	0.00	7,177.75	794.74	1,124.52	1,377.01	0.00	0.00	0.00
7,500.00	0.00	0.00	7,277.75	794.74	1,124.52	1,377.01	0.00	0.00	0.00
7,600.00	0.00	0.00	7,377.75	794.74	1,124.52	1,377.01	0.00	0.00	0.00
7,700.00	0.00	0.00	7,477.75	794.74	1,124.52	1,377.01	0.00	0.00	0.00
7,800.00	0.00	0.00	7,577.75	794.74	1,124.52	1,377.01	0.00	0.00	0.00
7,900.00	0.00	0.00	7,677.75	794.74	1,124.52	1,377.01	0.00	0.00	0.00
8,000.00 8,100.00	0.00 0.00	0.00 0.00	7,777.75 7,877.75	794.74 794.74	1,124.52 1,124.52	1,377.01 1,377.01	0.00 0.00	0.00 0.00	0.00 0.00
8,200.00	0.00	0.00	7,977.75	794.74	1,124.52	1,377.01	0.00	0.00	0.00
8,300.00	0.00	0.00	8,077.75	794.74 704.74	1,124.52	1,377.01	0.00	0.00	0.00
8,400.00 8,500.00	0.00 0.00	0.00 0.00	8,177.75 8,277.75	794.74 794.74	1,124.52 1,124.52	1,377.01	0.00 0.00	0.00 0.00	0.00
8,600.00	0.00	0.00	8,277.75 8,377.75	794.74 794.74	1,124.52 1,124.52	1,377.01 1,377.01	0.00	0.00	0.00 0.00
8,700.00	0.00	0.00	8,477.75	794.74	1,124.52	1,377.01	0.00	0.00	0.00





Database: EDM5000-RobertS-Local Company: US ROCKIES REGION P

US ROCKIES REGION PLANNING UTAH - UTM (feet), NAD27, Zone 12N

 Project:
 UTAH - UTM (feet),

 Site:
 NBU 922-34L PAD

 Well:
 NBU 922-34F4CS

Wellbore: OH

Design: PLAN #1 PRELIMINARY

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well NBU 922-34F4CS

GL 4989 & KB 4 @ 4993.00ft (ASSUMED) GL 4989 & KB 4 @ 4993.00ft (ASSUMED)

True

Minimum Curvature

ed Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
8,800.00	0.00	0.00	8,577.75	794.74	1,124.52	1,377.01	0.00	0.00	0.00
8,900.00	0.00	0.00	8,677.75	794.74	1,124.52	1,377.01	0.00	0.00	0.00
9,000.00	0.00	0.00	8,777.75	794.74	1,124.52	1,377.01	0.00	0.00	0.00
9,100.00	0.00	0.00	8,877.75	794.74	1,124.52	1,377.01	0.00	0.00	0.00
9,195.24	0.00	0.00	8,972.99	794.74	1,124.52	1,377.01	0.00	0.00	0.00
SEGO									
9,195.25	0.00	0.00	8,973.00	794.74	1,124.52	1,377.01	0.00	0.00	0.00
TD at 9195.2	5 - PBHL_NBU 9	922-34F4CS							

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL_NBU 922-34F4C\$ - plan hits target cent - Circle (radius 25.00		0.00	8,973.00	794.74	1,124.52	14,527,457.25	2,080,940.43	39.993207	-109.427219

Casing Points					
	Measured Depth	Vertical Depth		Casing Diameter	Hole Diameter
	(ft)	(ft)	Name	(in)	(in)
	2,508.04	2,415.00	5/8"	8.625	11.000

Formations						
	Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
	1,218.66	1,199.00	GREENRIVER			
	1,544.96	1,506.00	BIRDSNEST			
	2,029.16	1,961.00	MAHOGANY			
	4,600.85	4,382.00	WASATCH			
	6,943.25	6,717.00	MESAVERDE			
	9,195.24	8,968.99	SEGO		0.00	

Plan Annotations					
Meas	sured	Vertical	Local Coord	dinates	
Dej		Depth	+N/-S	+E/-W	
(f	τ)	(ft)	(ft)	(ft)	Comment
3	300.00	300.00	0.00	0.00	Start Build 2.00
1,3	300.00	1,279.82	99.71	141.09	Start 3015.82 hold at 1300.00 MD
4,3	315.82	4,113.76	695.03	983.43	Start Drop -2.00
5,3	315.82	5,093.58	794.74	1,124.52	Start 3879.42 hold at 5315.82 MD
9,	195.25	8,973.00	794.74	1,124.52	TD at 9195.25

Kerr-McGee Oil & Gas Onshore. L.P.

NBU 922-34L PAD

<u>API #</u>		NBU 922-34F4CS	
	Surface:	2085 FSL / 1026 FWL	NWSW
	BHL:	2408 FNL / 2151 FWL	SENW
API#	1	NBU 922-34J1BS	
	_	2057 FSL / 998 FWL	\\\\2\\\!A
		2414 FSL / 1821 FEL	
<u>API #</u>	_	NBU 922-34J1CS	N II A (C) A (
		2050 FSL / 991 FWL	NWSW
	BHL:	2082 FSL / 1821 FEL	NWSE
<u>API #</u>	I	NBU 922-34J4BS	
	Surface:	2028 FSL / 970 FWL	NWSW
	BHL:	1749 FSL / 1822 FEL	NWSE
API#	1	NBU 922-34K1BS	
	_	NBU 922-34K1BS 2078 FSL / 1019 FWL	NWSW
	Surface:		NWSW NESW
	Surface: BHL:	2078 FSL / 1019 FWL 2574 FSL / 2152 FWL	
<u>API #</u>	Surface: BHL:	2078 FSL / 1019 FWL 2574 FSL / 2152 FWL NBU 922-34K1CS	NESW
<u>API #</u>	Surface: BHL: Surface: Surface:	2078 FSL / 1019 FWL 2574 FSL / 2152 FWL	NESW
<u>API #</u>	Surface: BHL: Surface: BHL:	2078 FSL / 1019 FWL 2574 FSL / 2152 FWL NBU 922-34K1CS 2064 FSL / 1005 FWL 2242 FSL / 2152 FWL	NESW NWSW
<u>API #</u>	Surface: BHL: Surface: BHL:	2078 FSL / 1019 FWL 2574 FSL / 2152 FWL NBU 922-34K1CS 2064 FSL / 1005 FWL 2242 FSL / 2152 FWL NBU 922-34K4BS	NESW NWSW NESW
<u>API #</u>	Surface: BHL: Surface: BHL: Surface:	2078 FSL / 1019 FWL 2574 FSL / 2152 FWL NBU 922-34K1CS 2064 FSL / 1005 FWL 2242 FSL / 2152 FWL	NESW NWSW
<u>API #</u>	Surface: BHL: Surface: BHL: Surface: BHL:	2078 FSL / 1019 FWL 2574 FSL / 2152 FWL NBU 922-34K1CS 2064 FSL / 1005 FWL 2242 FSL / 2152 FWL NBU 922-34K4BS 2035 FSL / 977 FWL 1910 FSL / 2152 FWL	NESW NWSW NESW
<u>API #</u> <u>API #</u>	Surface: BHL: Surface: BHL: Surface: BHL:	2078 FSL / 1019 FWL 2574 FSL / 2152 FWL NBU 922-34K1CS 2064 FSL / 1005 FWL 2242 FSL / 2152 FWL NBU 922-34K4BS 2035 FSL / 977 FWL 1910 FSL / 2152 FWL	NESW NWSW NESW NWSW NESW
<u>API #</u> <u>API #</u>	Surface: BHL: Surface: BHL: Surface: BHL: Surface:	2078 FSL / 1019 FWL 2574 FSL / 2152 FWL NBU 922-34K1CS 2064 FSL / 1005 FWL 2242 FSL / 2152 FWL NBU 922-34K4BS 2035 FSL / 977 FWL 1910 FSL / 2152 FWL	NESW NWSW NWSW NWSW

This Surface Use Plan of Operations (SUPO) or 13-point plan provides site-specific information for the above-referenced wells.

In accordance with Utah Oil & Gas Conservation Rule R649-3-11 pertaining to Directional Drilling, these wells will be directionally drilled. Refer to Topo Map A for directions to the location and Topo Maps A and B for location of access roads within a 2-mile radius.

NBU 922-34F4CS / NBU 922-34J1BS / NBU 922-34J1CS NBU 922-34J4BS / NBU 922-34K1BS / NBU 922-34K1CS / NBU 922-34K4BS / NBU 922-34L1CS

An on-site meeting was held on August 16-17, 2012. Present were:

- Dave Gordon, Tyler Cox, Aaron Roe and Brian Barnett BLM;
- · Jessi Brunson USFWS;
- · Bill Knapp ICF Consulting;
- · Jacob Dunham 609 Consulting;
- · Mitch Batty Timberline Engineering & Land Surveying, Inc.; and
- · Gina Becker, Charles Chase, Lindsey Frazier, Doyle Holmes, Randy Townley and Casey McKee- Kerr-McGee

A. Existing Roads:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

Please refer to Topo B for existing roads.

B. New or Reconstructed Access Roads:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

The following segments are "on-lease"

±50' (0.01 miles) – Section 34 T9S R22E (NW/4 SW/4) – On-lease UTU-0149077, from the edge of pad to the T-intersection in NW/4 SW/4. Please refer to Topo B.

C. Location of Existing Wells:

Please refer to Topo C for exiting wells.

D. Location of Existing and/or Proposed Facilities:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

This pad will expand the existing pad for the NBU 80V, which is a producing gas well according to Utah Division of Oil, Gas and Mining (UDOGM) records on of pad November 20, 2012. Gathering (pipeline) infrastructure will be utilized to collect and transport gas and fluids from the wells which are owned and operated by Kerr McGee Oil and Gas Onshore LP (Kerr-McGee).

GAS GATHERING

Please refer to Exhibit A and Topo D2- Pad and Pipeline Detail.

The total gas gathering pipeline distance from the meter to the tie in point is $\pm 6,225$ ' and the individual segments are broken up as follows:

The following segments are "onlease", no ROW needed.

±235' (0.04 miles) – Section 34 T9S R22E (NW/4 SW/4) – On-lease UTU-0149077, BLM surface, New 10" buried gas gathering pipeline from the meter to the edge of the pad. Please refer to Topo D2 - Pad and Pipeline Detail.

- ±400' (0.1 miles) Section 34 T9S R22E (NW/4 SW/4) On-lease UTU-0149077, BLM surface, New 10" buried gas gathering pipeline from the edge of the pad to tie-in to the proposed buried 12" gas gathering pipeline at the NBU 922-34F Pad intersection . This pipeline will be used concurrently with the NBU 922-34M Pad. Please refer to Exhibit A, Line 13.
- ±1,395' (0.3 miles) Section 34 T9S R22E (NW/4 SW/4) On-lease UTU-0149077 and UTU-01191-A, BLM surface, New 12" buried gas gathering pipeline from the NBU 922-34F Pad pipeline intersection to tie-in to the proposed buried 16" gas gathering pipeline at the NBU 922-33H Pad intersection. This pipeline will be used concurrently with the NBU 922-34E, NBU 922-34F and NBU 922-34M Pads. Please refer to Exhibit A, Lines 12 and 11.

The following segments require a ROW. Anadarko Uintah Midstream (AUM) will apply for an SF-299/POD under separate cover. Listed below is the gas gathering pipeline distances:

±4,195' (0.8 miles) – Section 33 T9S R22E and Section 3 and 4 T10S R22E – On-lease UTU 01191-A and UTU 01191, BLM surface, New 16" buried gas gathering pipeline from the NBU 922-33H Pad pipeline intersection to the existing 16" buried gas pipeline in 1022-3 at the NBU 1022-3E Pad intersection. Please refer to Exhibit A- Line 10.

LIQUID GATHERING

Please refer to Exhibit B and Topo D2- Pad and Pipeline Detail.

The total liquid gathering pipeline distance from the separator to the tie in point is $\pm 6,225$ ' and the individual segments are broken up as follows:

The following segments are "onlease", no ROW needed.

- ±235' (0.04 miles) Section 34 T9S R22E (NW/4 SW/4) On-lease UTU-0149077, BLM surface, New 6" buried liquid gathering pipeline from the separator to the edge of the pad. Please refer to Topo D2 Pad and Pipeline Detail.
- ±400' (0.1 miles) Section 34 T9S R22E (NW/4 SW/4) On-lease UTU-0149077, BLM surface, New 6" buried liquid gathering pipeline from the edge of the pad to tie-in to the proposed buried 6" liquid gathering pipeline at the NBU 922-34F Pad intersection . This pipeline will be used concurrently with the NBU 922-34M Pad. Please refer to Exhibit B, Line 13.
- ±1,395' (0.3 miles) Section 34 T9S R22E (NW/4 SW/4) On-lease UTU-0149077 and UTU-01191-A, BLM surface, New 6" buried liquid gathering pipeline from the NBU 922-34F Pad pipeline intersection to tie-in to the proposed buried 6" liquid gathering pipeline at the NBU 922-33H Pad intersection. This pipeline will be used concurrently with the NBU 922-34E, NBU 922-34F and NBU 922-34M Pads. Please refer to Exhibit B, Lines 12 and 11.
- ±4,195' (0.8 miles) Section 33 T9S R22E and Section 3 and 4 T10S R22E On-lease UTU 01191-A and UTU 01191, BLM surface, New 6" buried liquid gathering pipeline from the NBU 922-33H Pad pipeline intersection to the existing 6" buried liquid pipeline in 1022-3 at the NBU 1022-3E Pad intersection. This pipeline will be used concurrently with the NBU 922-33F, NBU 922-33H, NBU 922-34E, NBU 922-34F, NBU 922-34M and NBU 922-33P Pads. Please refer to Exhibit B, Line 10.

Pipeline Gathering Construction

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

The Anadarko Completions Transportation System (ACTS) information:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

Please refer to Exhibit C for ACTS Lines

E. Location and Types of Water Supply:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

Water will be hauled to location over the roads marked on Maps A and B.

F. Construction Materials:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

G. Methods for Handling Waste:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

Materials Management

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

H. Ancillary Facilities:

No additional ancillary facilities are planned for this location.

I. Well Site Layout:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

J. Plans for Surface Reclamation:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

Interim Reclamation

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

NBU 922-34F4CS / NBU 922-34J1BS / NBU 922-34J1CS NBU 922-34J4BS / NBU 922-34K1BS / NBU 922-34K1CS / NBU 922-34K4BS / NBU 922-34L1CS

Final Reclamation

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

Measures Common to Interim and Final Reclamation

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

Weed Control

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

Monitoring

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

K. Surface/Mineral Ownership:

United States of America Bureau of Land Management 170 South 500 East Vernal, UT 84078 (435)781-4400

L. Other Information:

Cultural and Paleontological Resources

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

Resource Reports:

A Class I literature survey was completed on September 21, 2012 by Montgomery Archaeological Consultants, Inc (MOAC). For additional details please refer to report MOAC-12-264.

A paleontological reconnaissance survey was completed on September 20, 2012 by SWCA Environmental Consultants. For additional details please refer to report SWCA-UT12-14314-178.

Biological field survey was completed on August 25, 2012 by Grasslands Consulting, Inc (GCI). For additional details please refer to report GCI-845.

Proposed Action Annual Emissions Tables:

Please refer to the Appendix in the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

NBU 922-34F4CS / NBU 922-34J1BS / NBU 922-34J1CS NBU 922-34J4BS / NBU 922-34K1BS / NBU 922-34K1CS / NBU 922-34K4BS / NBU 922-34L1CS

M. Lessee's or Operators' Representative & Certification:

Gina T. Becker Senior Regulatory Analyst Kerr-McGee Oil & Gas Onshore LP PO Box 173779 Denver, CO 80217-3779 (720) 929-6086 Tommy Thompson General Manager, Drilling Kerr-McGee Oil & Gas Onshore LP PO Box 173779 Denver, CO 80217-3779 (720) 929-6724

Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

Kerr-McGee Oil & Gas Onshore LP is considered to be the operator of the subject well. Kerr-McGee Oil & Gas Onshore LP agrees to be responsible under terms and conditions of the lease for the operations conducted upon leased lands.

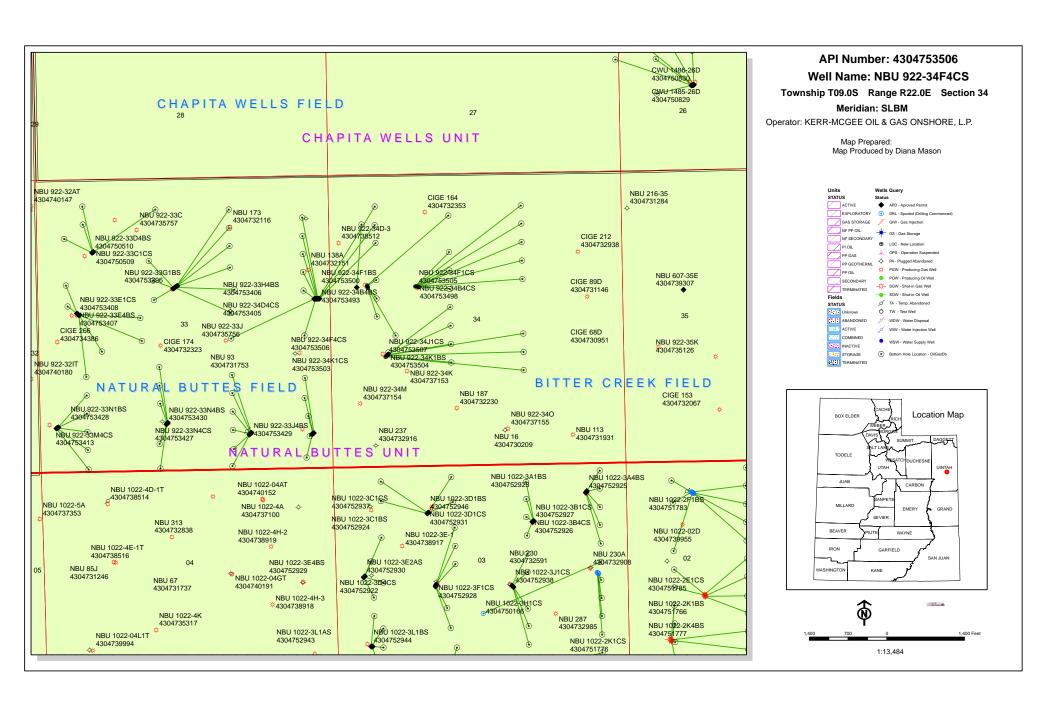
Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by Bureau of Land Management Nationwide Bond WYB000291.

I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist; that I have full knowledge of the State and Federal laws applicable to this operation; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

Gina T.Becker

November 20, 2012

Date



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
P.O. Box 45155
Salt Lake City, Utah 84145-0155

IN REPLY REFER TO: 3160 (UT-922)

January 15, 2013

Memorandum

To: Assistant Field Office Manager Minerals,

Vernal Field Office

From: Michael Coulthard, Petroleum Engineer

Subject: 2013 Plan of Development Natural Buttes Unit

Uintah County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2013 within the Natural Buttes Unit, Uintah County, Utah.

API # WELL NAME LOCATION

(Proposed PZ WASATCH-MESA VERDE)

NBU 921-17C PAD

43-047-53476 NBU					R21E R21E				
43-047-53483 NBU NBU 921-17D PAD					R21E R21E				
43-047-53477 NBU					R21E R21E				
43-047-53478 NBU					R21E R21E				
43-047-53479 NBU					R21E R21E				
43-047-53480 NBU					R21E R21E				
43-047-53481 NBU					R21E R21E				
43-047-53482 NBU					R21E R21E				
NBU 922-34F PAD 43-047-53484 NBU					R22E R22E				
43-047-53485 NBU					R22E R22E				
43-047-53486 NBU	922-34F4BS	Sec	34	T09S	R22E	2032	FNL	1598	FWL

BHL Sec 34 T09S R22E 2076 FNL 2151 FWL

Received: January 15, 2013

(Proposed PZ	WASA	ATCH-MESA VERDE	Ξ)							
43-047-53492	NBU	922-34B1CS BHL								
43-047-53493	NBU	922-34B4BS BHL								
43-047-53498	NBU	922-34B4CS BHL	Sec Sec	34 34	T09S T09S	R22E R22E	2027 1247	FNL FNL	1568 1820	FWL FEL
43-047-53500	NBU	922-34F1BS BHL								
43-047-53505	NBU	922-34F1CS BHL	Sec Sec	34 34	T09S T09S	R22E R22E	2026 1744	FNL FNL	1559 2151	FWL FWL
43-047-53487	NBU	922-34C4BS BHL	Sec	34	T09S	R22E	1991	FNL	0662	FWL
43-047-53488	NBU	922-34E1CS BHL	Sec Sec	34 34	T09S T09S	R22E R22E	2001 1896	FNL FNL	0663 0825	FWL FWL
43-047-53489	NBU	922-34E4BS BHL								
43-047-53490	NBU	922-34E4CS BHL	Sec Sec	34 34	T09S T09S	R22E R22E	2040 2559	FNL FNL	0670 0825	FWL FWL
43-047-53491	NBU	922-34L1AS BHL	Sec Sec	34 34	T09S T09S	R22E R22E	2030 2406	FNL FSL	0668 1156	FWL FWL
NBU 922-34L B 43-047-53497	P AD NBU	922-34L1CS BHL	Sec	34	T09S	R22E	2071	FSL	1012	FWL
43-047-53499	NBU	922-34K4BS BHL								
43-047-53501	NBU	922-34J1BS BHL	Sec Sec	34 34	T09S T09S	R22E R22E	2057 2414	FSL FSL	0998 1821	FWL FEL
43-047-53502	NBU	922-34J4BS BHL								
43-047-53503	NBU	922-34K1CS BHL								
43-047-53504	NBU	922-34K1BS BHL							1019 2152	
43-047-53506	NBU	922-34F4CS BHL								
43-047-53507	NBU	922-34J1CS BHL								
NBU 922-34M B 43-047-53508		922-34J4CS	Sec	34	T09S	R22E	1203	FSL		FWL
43-047-53509	NBU	922-34K4CS BHL							0499 2094	
43-047-53510	NBU	922-34L2DS BHL							0505 0407	
43-047-53511	NBU	922-34L3DS BHL							0502 0428	

API # WELL NAME LOCATION

(Proposed PZ WASATCH-MESA VERDE) 43-047-53512 NBU 922-34M1BS Sec 34 T09S R22E 1194 FSL 0493 FWL BHL Sec 34 T09S R22E 1054 FSL 1135 FWL NBU 922-34M4 PAD BHL Sec 34 T09S R22E 0415 FSL 0826 FWL 43-047-53514 NBU 922-34M4CS Sec 34 T09S R22E 0295 FSL 0747 FWL BHL Sec 34 T09S R22E 0115 FSL 0716 FWL 43-047-53515 NBU 922-34N1CS Sec 34 T09S R22E 0319 FSL 0779 FWL BHL Sec 34 T09S R22E 0913 FSL 2153 FWL 43-047-53516 NBU 922-34N4BS Sec 34 T09S R22E 0307 FSL 0763 FWL BHL Sec 34 T09S R22E 0581 FSL 2153 FWL 43-047-53517 NBU 922-34N4CS Sec 34 T09S R22E 0301 FSL 0755 FWL BHL Sec 34 T09S R22E 0201 FSL 2140 FWL 43-047-53518 NBU 922-3401BS Sec 34 T09S R22E 0313 FSL 0771 FWL BHL Sec 34 T09S R22E 1083 FSL 1822 FEL NBU 921-17G PAD 43-047-53519 NBU 921-17B4CS Sec 17 T09S R21E 1527 FNL 2258 FEL BHL Sec 17 T09S R21E 1239 FNL 1823 FEL 43-047-53520 NBU 921-17F1CS Sec 17 T09S R21E 1529 FNL 2288 FEL BHL Sec 17 T09S R21E 1736 FNL 2152 FWL 43-047-53521 NBU 921-17F4BS Sec 17 T09S R21E 1528 FNL 2278 FEL BHL Sec 17 T09S R21E 2066 FNL 2151 FWL 43-047-53523 NBU 921-17G4BS Sec 17 T09S R21E 1528 FNL 2268 FEL BHL Sec 17 T09S R21E 2106 FNL 1832 FEL NBU 921-17H PAD 43-047-53522 NBU 921-17A4BS Sec 17 T09S R21E 2074 FNL 0557 FEL BHL Sec 17 T09S R21E 0744 FNL 0496 FEL 43-047-53524 NBU 921-17A4CS Sec 17 T09S R21E 2076 FNL 0547 FEL BHL Sec 17 T09S R21E 1074 FNL 0496 FEL 43-047-53525 NBU 921-17H1BS Sec 17 T09S R21E 2078 FNL 0538 FEL BHL Sec 17 T09S R21E 1405 FNL 0496 FEL 43-047-53526 NBU 921-17H1CS Sec 17 T09S R21E 2080 FNL 0528 FEL BHL Sec 17 T09S R21E 1736 FNL 0495 FEL 43-047-53527 NBU 921-17H4CS Sec 17 T09S R21E 2082 FNL 0518 FEL BHL Sec 17 T09S R21E 2495 FNL 0489 FEL

bcc: File - Natural Buttes Unit
 Division of Oil Gas and Mining
 Central Files
 Agr. Sec. Chron
 Fluid Chron

MCoulthard:mc:1-15-13

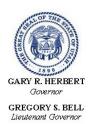
API	Well Name	Surface Location					
43-047-53476	NBU 921-17C4CS	Sec 17	T09S	R21E	0629 FNL 2001 FWL		
43-047-53477	NBU 921-17E4BS	Sec 17	T09S	R21E	0953 FNL 0416 FWL		
43-047-53478	NBU 921-17E1CS	Sec 17	T09S	R21E	0959 FNL 0424 FWL		
43-047-53479	NBU 921-17E1BS	Sec 17	T09S	R21E	0965 FNL 0432 FWL		
43-047-53480	NBU 921-17D4BS	Sec 17	T09S	R21E	0982 FNL 0457 FWL		
43-047-53481	NBU 921-17D1CS	Sec 17	T09S	R21E	0976 FNL 0449 FWL		
43-047-53482	NBU 921-17D1BS	Sec 17	T09S	R21E	0970 FNL 0440 FWL		
43-047-53483	NBU 921-17F1BS	Sec 17	T09S	R21E	0634 FNL 1993 FWL		
43-047-53484	NBU 922-34G1CS	Sec 17	T09S	R22E	2030 FNL 1588 FWL		
43-047-53485	NBU 922-34G1BS	Sec 34	T09S	R22E	2029 FNL 1578 FWL		
43-047-53486	NBU 922-34F4BS	Sec 34	T09S	R22E	2032 FNL 1598 FWL		
43-047-53487	NBU 922-34C4BS	Sec 34	T09S	R22E	1991 FNL 0662 FWL		
43-047-53488	NBU 922-34E1CS	Sec 34	T09S	R22E	2001 FNL 0663 FWL		
43-047-53489	NBU 922-34E4BS	Sec 34	T09S	R22E	2021 FNL 0666 FWL 2040 FNL 0670 FWL		
43-047-53490	NBU 922-34E4CS	Sec 34	T09S	R22E			
43-047-53491	NBU 922-34L1AS	Sec 34	T09S	R22E	2030 FNL 0668 FWL		
	NBU 922-34B1CS	Sec 34	T09S	R22E	2023 FNL 1539 FWL		
43-047-53493 43-047-53497	NBU 922-34B4BS	Sec 34	T09S	R22E	2024 FNL 1549 FWL		
	NBU 922-34L1CS	Sec 34	T09S	R22E	2071 FSL 1012 FWL		
43-047-53498	NBU 922-34B4CS	Sec 34	T09S	R22E	2027 FNL 1568 FWL		
43-047-53499	NBU 922-34K4BS	Sec 34	T09S	R22E	2035 FSL 0977 FWL		
43-047-53500	NBU 922-34F1BS	Sec 34	T09S	R22E	2021 FNL 1529 FWL		
43-047-53501	NBU 922-34J1BS	Sec 34	T09S	R22E	2057 FSL 0998 FWL		
43-047-53502	NBU 922-34J4BS	Sec 34	T09S	R22E	2028 FSL 0970 FWL		
43-047-53503	NBU 922-34K1CS	Sec 34	T09S	R22E	2064 FSL 1005 FWL		
43-047-53504	NBU 922-34K1BS	Sec 34	T09S	R22E	2078 FSL 1019 FWL		
43-047-53505	NBU 922-34F1CS	Sec 34	T09S	R22E	2026 FNL 1559 FWL		
43-047-53506	NBU 922-34F4CS	Sec 34	T09S	R22E	2085 FSL 1026 FWL		
43-047-53507	NBU 922-34J1CS	Sec 34	T09S	R22E	2050 FSL 0991 FWL		
43-047-53508	NBU 922-34J4CS	Sec 34	T09S	R22E	1203 FSL 0497 FWL		
43-047-53509	NBU 922-34K4CS	Sec 34	T09S	R22E	1213 FSL 0499 FWL		
43-047-53510	NBU 922-34L2DS	Sec 34	T09S	R22E	1232 FSL 0505 FWL		
43-047-53511	NBU 922-34L3DS	Sec 34	T09S	R22E	1222 FSL 0502 FWL		
43-047-53512	NBU 922-34M1BS	Sec 34	T09S	R22E	1194 FSL 0493 FWL		
43-047-53513	NBU 922-34M4BS	Sec 34	T09S	R22E	0325 FSL 0787 FWL		
43-047-53514	NBU 922-34M4CS	Sec 34	T09S	R22E	0295 FSL 0747 FWL		
43-047-53515	NBU 922-34N1CS	Sec 34	T09S	R22E	0319 FSL 0779 FWL		
43-047-53516	NBU 922-34N4BS	Sec 34	T09S	R22E	0307 FSL 0763 FWL		
43-047-53517	NBU 922-34N4CS	Sec 34	T09S	R22E	0301 FSL 0755 FWL		
43-047-53518	NBU 922-3401BS	Sec 34	T09S	R22E	0313 FSL 0771 FWL		
43-047-53519	NBU 921-17B4CS	Sec 17	T09S	R21E	1527 FNL 2258 FEL		
43-047-53520	NBU 921-17F1CS	Sec 17	T09S	R21E	1529 FNL 2288 FEL		
43-047-53521	NBU 921-17F4BS	Sec 17	T09S	R21E	1528 FNL 2278 FEL		
43-047-53522	NBU 921-17A4BS	Sec 17	T09S	R21E	2074 FNL 0557 FEL		
43-047-53523	NBU 921-17G4BS	Sec 17	T09S	R21E	1528 FNL 2268 FEL		
43-047-53524	NBU 921-17A4CS	Sec 17	T09S	R21E	2076 FNL 0547 FEL		

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API	Well Name	Surface Location					
43-047-53525	NBU 921-17H1BS	Sec 17	T09S	R21E	2078 FNL 0538 FEL		
43-047-53526	NBU 921-17H1CS	Sec 17	T09S	R21E	2080 FNL 0528 FEL		
43-047-53527	NBU 921-17H4CS	Sec 17	T09S	R21E	2082 FNL 0518 FEL		

2 of 2 1/15/2013

Received: January 15, 2013



State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: NBU 922-34F4CS
API Well Number: 43047535060000
Lease Number: UTU-0149077
Surface Owner: FEDERAL

Approval Date: 1/30/2013

Issued to:

KERR-MCGEE OIL & GAS ONSHORE, L.P., P.O. Box 173779, Denver, CO 80217

Authority:

Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 173-14. The expected producing formation or pool is the WASATCH-MESA VERDE Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

Commingle:

In accordance with Board Cause No. 173-14, commingling of the production from the Wasatch formation and the Mesaverde formation in this well is allowed.

General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:

State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

In accordance with the Order in Cause No. 190-5(b) dated October 28, 1982, the operator shall comply with the requirements of Rules R649-3-31 and R649-3-27 pertaining to Designated Oil Shale Areas. Additionally, the operators shall ensure that the surface and or production casing is properly cemented over the entire oil

shale section as defined by Rule R649-3-31. The Operator shall report the actual depth the oil shale is encountered to the division.

Notification Requirements:

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

• Within 24 hours following the spudding of the well - contact Carol Daniels at 801-538-5284

(please leave a voicemail message if not available)

submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website

at http://oilgas.ogm.utah.gov

Reporting Requirements:

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) due within 5 days of spudding the well
- Monthly Status Report (Form 9) due by 5th day of the following calendar month
 - Requests to Change Plans (Form 9) due prior to implementation
 - Written Notice of Emergency Changes (Form 9) due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) due prior to implementation
 - Report of Water Encountered (Form 7) due within 30 days after completion
- Well Completion Report (Form 8) due within 30 days after completion or plugging

Approved By:

For John Rogers Associate Director, Oil & Gas

RECEIVED

UNITED STATES DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT**

DEC 0 4 2012

FORM APPROVED

APPLICATION FOR PERMIT TO DRILL OR REEN TO A

OMB No. 1004-0136 Expires July 31, 2010

5. Lease Serial No. UTU0149077

	V	o. It fildian, Allottee or Tribe Name			
1a. Type of Work: ☑ DRILL ☐ REENTER		7. If Unit or CA Agreement, Name and No. 891008900A			
1b. Type of Well: ☐ Oil Well ☐ Gas Well ☐ Ot 2. Name of Operator Contact:		Lease Name and Well No. NBU 922-34F4CS			
KERR MCGEE OIL & GAS ONSHOR Gail: GINA.B	GINA T BECKER ECKER@ANADARKO.COM	9. API Well No. V35/10			
3a. Address 1368 SOUTH 1200 EAST	3b. Phone No. (include area code)	10. Field and Pool, or Exploratory			
VERNAL, UT 84078	Ph: 720-929-6086 Fx: 720-929-7086	NATURAL BÚTTES			
4. Location of Well (Report location clearly and in according	ance with any State requirements.*)	11. Sec., T., R., M., or Blk. and Survey or Area			
At surface NWSW 2085FSL 1026FW	L 39.990990 N Lat, 109.431916 W Lon	Sec 34 T9S R22E Mer SLB			
At proposed prod. zone SENW 2408FNL 2151FWI	_ 39.993173 N Lat, 109.427902 W Lon	SME: BLM			
14. Distance in miles and direction from nearest town or post APPROXIMATELY 50 MILES SOUTHEAST OF	office*	12. County or Parish 13. State			
		UINTÁH UT			
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No. of Acres in Lease	17. Spacing Unit dedicated to this well			
1764	600.00				
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. on file			
661	9195 MD 8973 TVD	WYB000291			
21. Elevations (Show whether DF, KB, RT, GL, etc.	22. Approximate date work will start	23. Estimated duration			
4989 GL	07/01/2012	60-90 DAYS			
	24. Attachments				
The following, completed in accordance with the requirements of	f Onshore Oil and Gas Order No. 1, shall be attached to t	his form:			
Well plat certified by a registered surveyor. A Drilling Plan.	4. Bond to cover the operation	ns unless covered by an existing bond on file (see			
3. A Surface Use Plan (if the location is on National Forest Systematics)	am Landa the	,			
SUPO shall be filed with the appropriate Forest Service Off	ice). 6. Such other site specific infigurthorized officer.	ormation and/or plans as may be required by the			
25. Signature	Name (Printed/Typed)	Date			
(Electronic Submission)	GINA T BECKÉR Ph: 720-929-6086	12/04/2012			
Title REGULATORY ANALYST II					
Approved by (Signature)	Name (Printed/Typed)	I Date			
The Brushe	Jerry Kenczka	A MAY 2 9 2013			
Title Assistant Field Manager	Office				
Lands & Mineral Resources	VERNAL FIELD OFFIC	E			
Application approval does not warrant or certify the applicant holoperations thereon.	ds legal or equitable title to those rights in the subject lea	ase which would entitle the applicant to conduct			
Conditions of approval, if any, are attached.	UNS OF APPROVAL ATTACHED				
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, n States any false, fictitious or fraudulent statements or representation	nake it a crime for any person knowingly and willfully to	make to any department or agency of the United			
,	ons as to any matter within its jurisdiction.	RECEIVED			
Additional Operator Remarks (see next page)		ILINI 0 2 2012			

JUN 0 2 ZUIZ

Electronic Submission #161654 verified by the BLM Well Information System
For KERR MCGEE OIL & GAS ONSHORE L, sent to the Vernal

DIV. OF OIL GAS & MINING
Committed to AFMSS for processing by JOHNETTA MAGEE on 12/14/2012 (13JM0144AE)

NOTICE OF APPROVAL

** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED **

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UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT VERNAL FIELD OFFICE

VERNAL FIELD OFFICE VERNAL, UT 84078

(435) 781-4400



CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company: Well No:

Kerr McGee Oil & Gas Onshore, LP

170 South 500 East

NBU 922-34F4CS

API No: 43-047-53506

Location: Lease No:

Agreement:

NWSW, Sec. 34, T9S, R22E

UTU-0149077

Natural Butte

OFFICE NUMBER:

(435) 781-4400

OFFICE FAX NUMBER:

(435) 781-3420

A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR FIELD REPRESENTATIVE TO INSURE COMPLIANCE

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.

NOTIFICATION REQUIREMENTS

_	Forty-Eight (48) hours prior to construction of location and access roads.
-	Prior to moving on the drilling rig.
-	Twenty-Four (24) hours prior to spudding the well.
-	Twenty-Four (24) hours prior to running casing and cementing all casing strings to: blm_ut_vn_opreport@blm.gov
-	Twenty-Four (24) hours prior to initiating pressure tests.
	Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.
	-

Page 2 of 7 Well: NBU 922-34F4CS

5/16/2013

SURFACE USE PROGRAM CONDITIONS OF APPROVAL (COAs)

- All new and replacement internal combustion gas field engines of less than or equal to 300 designrated horsepower must not emit more than 2 gms of NO_x per horsepower-hour. This requirement does not apply to gas field engines of less than or equal to 40 design-rated horsepower.
- All and replacement internal combustion gas field engines of greater than 300 design rated horsepower must not emit more than 1.0 gms of NO_x per horsepower-hour.
- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.
- If paleontological materials are uncovered during construction, the operator is to immediately stop
 work and contact the Authorized Officer (AO). A determination will be made by the AO as to what
 mitigation may be necessary for the discovered paleontologic material before construction can
 continue.
- Mitigation measures can be found in Appendix B, Table B-2, of the GNB ROD (BLM 2012b) under the following sections of the table:
 - o Air Quality
 - o Soils
 - o Vegetation: Sclerocactus wetlandicus
 - o Wildlife: Colorado River Fish
- All vehicles and equipment shall be cleaned either through power-washing, or other approved method, if the vehicles or equipment were previously operated outside the Uinta Basin, to prevent weed seed introduction.
- All disturbance areas shall be monitored for noxious weeds annually, for a minimum of three growing seasons following completion of project or until desirable vegetation is established
- Noxious and invasive weeds will be controlled throughout the area of project disturbance.
- Noxious weeds will be inventoried and reported to BLM in the annual reclamation report. Where an
 integrated pest management program is applicable, coordination has been undertaken with the
 state and local management program (if existing). A copy of the pest management plan will be
 submitted for each project.
- A pesticide use permit (PUP) will be obtained for the project, if applicable.
- Paleontological monitoring by a BLM permitted paleontologist is required for Well Pads 922-33A, 922-33D, 922-33E, 922-33H, and 922-33N; Access Road for 922-33E during all ground disturbing activities (BLM 2012b; BLM 2013c).
- Construction and development activities will be prohibited at the Well pads 922-34E, 922-34F, and 922-34L locations from 5/15 to 6/30 (BLM 2008a).
- Damage to livestock and livestock facilities would be reported as quickly as possible to the BLM and affected livestock operators. Operators would develop and employ prevention measures to

Page 3 of 7 Well: NBU 922-34F4CS 5/16/2013

avoid damaging fences, gates, and cattle guards, including upgrading cattle guard gate widths and load-bearing requirements and fencing all open pits and cellars.

If partial or complete removal of a fence cannot be avoided, the fence would be braced and tied off per the BLM guidance. Where the fence is crossed by a road, the fence would be braced and a cattle guard and gate installed per BLM guidance.

Page 4 of 7 Well: NBU 922-34F4CS 5/16/2013

DOWNHOLE PROGRAM CONDITIONS OF APPROVAL (COAs)

SITE SPECIFIC DOWNHOLE COAs:

- Cement for the 4.5 inch casing shall be brought up to a minimum of 200 feet above the surface casing shoe.
- A CBL shall be run from TD to TOC in the Production Casing.
- Variances shall be granted as requested in Section 9 of the Drilling Program of the SOP.
- Gamma Ray Log shall be run from TD to the Surface.

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and <u>NOT</u> by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- Cement baskets shall not be run on surface casing.
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is
 encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal
 Field Office.

Page 5 of 7 Well: NBU 922-34F4CS 5/16/2013

- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.
- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM,
 Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the <u>top of cement</u> and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- Please submit an electronic copy of all other logs run on this well in CD (compact disc) format to the Vernal BLM Field Office. This submission will supersede the requirement for submittal of paper logs to the BLM.
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

Page 6 of 7 Well: NBU 922-34F4CS 5/16/2013

OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- For information regarding production reporting, contact the Office of Natural Resources Revenue (ONRR) at <u>www.ONRR.gov</u>.
- Should the well be successfully completed for production, the BLM Vernal Field office must be
 notified when it is placed in a producing status. Such notification will be by written communication
 and must be received in this office by not later than the fifth business day following the date on
 which the well is placed on production. The notification shall provide, as a minimum, the following
 informational items:
 - o Operator name, address, and telephone number.
 - o Well name and number.
 - Well location (¼¼, Sec., Twn, Rng, and P.M.).
 - Date well was placed in a producing status (date of first production for which royalty will be paid).
 - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
 - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
 - Unit agreement and/or participating area name and number, if applicable.
 - o Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be
 reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported
 verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will
 be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of
 Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs,

Page 7 of 7 Well: NBU 922-34F4CS 5/16/2013

core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to
 the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first.
 All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All
 product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in
 accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering
 lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a
 suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be
 obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover
 equipment shall be removed from a well to be placed in a suspended status without prior approval
 of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior
 approval of the BLM Vernal Field Office shall be obtained and notification given before resumption
 of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office
 Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in
 order that a representative may witness plugging operations. If a well is suspended or abandoned,
 all pits must be fenced immediately until they are backfilled. The "Subsequent Report of
 Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of
 the well bore, showing location of plugs, amount of cement in each, and amount of casing left in
 hole, and the current status of the surface restoration.

Sundry Number: 44934 API Well Number: 43047535060000

	STATE OF UTAH DEPARTMENT OF NATURAL RESOURCE		FORM 9
	5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-0149077		
SUNDR	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:		
	posals to drill new wells, significantly reenter plugged wells, or to drill horizon n for such proposals.		7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES
1. TYPE OF WELL Gas Well		8. WELL NAME and NUMBER: NBU 922-34F4CS	
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ON	9. API NUMBER: 43047535060000		
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18tl	9. FIELD and POOL or WILDCAT: 5NATERAL BUTTES		
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2085 FSL 1026 FWL	COUNTY: UINTAH		
QTR/QTR, SECTION, TOWNSH Qtr/Qtr: NWSW Section:	idian: S	STATE: UTAH	
11. CHEC	K APPROPRIATE BOXES TO INDICA	TE NATURE OF NOTICE, REPOR	RT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
✓ NOTICE OF INTENT	ACIDIZE	ALTER CASING	CASING REPAIR
Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME
	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	FRACTURE TREAT	NEW CONSTRUCTION
	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK
SPUD REPORT	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION
Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON
	TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL
DRILLING REPORT Report Date:	WATER SHUTOFF	SI TA STATUS EXTENSION	✓ APD EXTENSION
	WILDCAT WELL DETERMINATION	OTHER	OTHER:
Kerr-McGee Oil & Gan extension to this	completed operations. Clearly show as Onshore, L. P. (Kerr-McG APD for the maximum time with any questions and/or c	ee) respectfully requests allowed. Please contact	
NAME (PLEASE PRINT) Kay E. Kelly	PHONE NUME 720 929 6582	BER TITLE Regulatory Analyst	
SIGNATURE		DATE	
N/A		11/14/2013	

Sundry Number: 44934 API Well Number: 43047535060000



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047535060000

API: 43047535060000 **Well Name:** NBU 922-34F4CS

Location: 2085 FSL 1026 FWL QTR NWSW SEC 34 TWNP 090S RNG 220E MER S

Company Permit Issued to: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Date Original Permit Issued: 1/30/2013

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

ronowing is a checklist of some items related to the application, which should be verified.
• If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes 📵 No
 Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes No
 Has there been any unit or other agreements put in place that could affect the permitting or operation of thi proposed well? Yes No
 Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location? Yes No
• Has the approved source of water for drilling changed? 🔘 Yes 🌘 No
 Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes No
• Is bonding still in place, which covers this proposed well? 📵 Yes 🔘 No
Signature: Kay E. Kelly Date: 11/14/2013
Title: Regulatory Analyst Representing: KERR-MCGEE OIL & GAS ONSHORE, L.P.

RECEIVED: Nov. 14, 2013

	STATE OF UTAH DEPARTMENT OF NATURAL RESOURCE		FORM 9				
[5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-0149077						
SUNDR	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:						
Do not use this form for procurrent bottom-hole depth, IFOR PERMIT TO DRILL form	7.UNIT OF CA AGREEMENT NAME: NATURAL BUTTES						
1. TYPE OF WELL Gas Well	YPE OF WELL						
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ON	9. API NUMBER: 43047535060000						
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4. LOCATION OF WELL FOOTAGES AT SURFACE: 2085 FSL 1026 FWL	COUNTY: UINTAH						
QTR/QTR, SECTION, TOWNSH Qtr/Qtr: NWSW Section:	STATE: UTAH						
11. CHECI	K APPROPRIATE BOXES TO INDICATE	NATURE OF NOTICE, REPOR	RT, OR OTHER DATA				
TYPE OF SUBMISSION		TYPE OF ACTION					
	ACIDIZE	ALTER CASING	CASING REPAIR				
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME				
	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE				
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	FRACTURE TREAT	☐ NEW CONSTRUCTION				
	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK				
✓ SPUD REPORT	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION				
Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON				
1/8/2014	TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL				
DRILLING REPORT		SI TA STATUS EXTENSION	APD EXTENSION				
Report Date:	L WATER SHUTOFF						
	WILDCAT WELL DETERMINATION	OTHER	OTHER:				
Spud well 01/08/20° X .250 wall co	COMPLETED OPERATIONS. Clearly show all 14 @ 13:00. Drill 24" conduct nductor pipe, cement with 81 as spud date and surface casir	tor hole to 40', run 14" sacks ready mix.	Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY January 10, 2014				
NAME (PLEASE PRINT) Doreen Green	PHONE NUMBE 435 781-9758	R TITLE Regulatory Analyst II					
SIGNATURE	12.12.130	DATE					
l N/A		1/10/2014					

Sundry Number: 52452 API Well Number: 43047535060000

	STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES		FORM 9
ι	5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-0149077		
SUNDR	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:		
Do not use this form for pro current bottom-hole depth, I FOR PERMIT TO DRILL form	7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES		
1. TYPE OF WELL Gas Well			8. WELL NAME and NUMBER: NBU 922-34F4CS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ON	9. API NUMBER: 43047535060000		
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th	PH n Street, Suite 600, Denver, CO, 80217 37	ONE NUMBER: 720 929-6	9. FIELD and POOL or WILDCAT: 110ATURAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2085 FSL 1026 FWL			COUNTY: UINTAH
QTR/QTR, SECTION, TOWNSH Qtr/Qtr: NWSW Section:	IIP, RANGE, MERIDIAN: 34 Township: 09.0S Range: 22.0E Meridiai	n: S	STATE: UTAH
11. CHECI	K APPROPRIATE BOXES TO INDICATE I	NATURE OF NOTICE, REPOR	RT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
	ACIDIZE	ALTER CASING	CASING REPAIR
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME
	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	FRACTURE TREAT	☐ NEW CONSTRUCTION
	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK
	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION
SPUD REPORT Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON
			WATER DISPOSAL
✓ DRILLING REPORT	L TUBING REPAIR	VENT OR FLARE	
Report Date: 6/24/2014	☐ WATER SHUTOFF	SI TA STATUS EXTENSION	APD EXTENSION
3, = 1, = 3 1 1	WILDCAT WELL DETERMINATION	OTHER	OTHER:
	completed operations. Clearly show all ped to 9,208 ft. in Quarter 2 of	-	Accepted by the Utah Division of Oil, Gas and Mining FORITESS, QRD ONLY
NAME (PLEASE PRINT)	PHONE NUMBER	TITLE Staff Reg. Specialist	
Ila Beale	720 929-6408	Staff Reg. Specialist	
SIGNATURE N/A		DATE 6/24/2014	

RECEIVED: Jun. 24, 2014

Sundry Number: 55406 API Well Number: 43047535060000

	STATE OF UTAH DEPARTMENT OF NATURAL RESOUR				FORM 9		
ı		DESIGNATION AND SERIAL NUMBER: 0149077					
SUNDR	6. IF INC	DIAN, ALLOTTEE OR TRIBE NAME:					
Do not use this form for pro current bottom-hole depth, I FOR PERMIT TO DRILL form	posals to drill new wells, significantly reenter plugged wells, or to drill horizon for such proposals.	deep ontal l	en existing wells below aterals. Use APPLICATION		OF CA AGREEMENT NAME: RAL BUTTES		
1. TYPE OF WELL Gas Well	1. TYPE OF WELL						
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ON	ISHORE, L.P.				UMBER: '535060000		
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th	n Street, Suite 600, Denver, CO, 8021		NE NUMBER: 9 720 929-6		O and POOL or WILDCAT: RAL BUTTES		
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2085 FSL 1026 FWL	COUNTY						
QTR/QTR, SECTION, TOWNSH Qtr/Qtr: NWSW Section:	STATE: UTAH						
11. CHECI	K APPROPRIATE BOXES TO INDICA	TE NA	ATURE OF NOTICE, REPOR	T, OR C	OTHER DATA		
TYPE OF SUBMISSION			TYPE OF ACTION				
	ACIDIZE	A	LTER CASING		CASING REPAIR		
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS	□ c	HANGE TUBING		CHANGE WELL NAME		
Approximate date work will start.	CHANGE WELL STATUS	□ c	OMMINGLE PRODUCING FORMATIONS		CONVERT WELL TYPE		
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	□ г	RACTURE TREAT		NEW CONSTRUCTION		
	OPERATOR CHANGE	Пр	LUG AND ABANDON		PLUG BACK		
SPUD REPORT	PRODUCTION START OR RESUME		ECLAMATION OF WELL SITE		RECOMPLETE DIFFERENT FORMATION		
Date of Spud:	REPERFORATE CURRENT FORMATION		IDETRACK TO REPAIR WELL	Г	TEMPORARY ABANDON		
	TUBING REPAIR		ENT OR FLARE		WATER DISPOSAL		
✓ DRILLING REPORT	WATER SHUTOFF		I TA STATUS EXTENSION	_	APD EXTENSION		
Report Date: 9/11/2014							
	WILDCAT WELL DETERMINATION		THER		IER:		
Started compl	completed operations. Clearly show eting the well. Well TD at 9	,208	ft. Thank you.	FO!	Accepted by the Utah Division of il, Gas and Mining R RECORD ONLY September 12, 2014		
NAME (PLEASE PRINT) Kay E. Kelly	PHONE NUME 720 929 6582	BER	TITLE Regulatory Analyst				
SIGNATURE N/A			DATE 9/11/2014				

Sundry Number: 59040 API Well Number: 43047535060000

	STATE OF UTAH DEPARTMENT OF NATURAL RESOUR			FORM 9
[ASE DESIGNATION AND SERIAL NUMBER: U-0149077		
SUNDR	6. IF	INDIAN, ALLOTTEE OR TRIBE NAME:		
Do not use this form for pro current bottom-hole depth, I FOR PERMIT TO DRILL form	ATION 1.UN	IIT or CA AGREEMENT NAME: TURAL BUTTES		
1. TYPE OF WELL Gas Well		ELL NAME and NUMBER: U 922-34F4CS		
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ON		PI NUMBER: 047535060000		
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th		ELD and POOL or WILDCAT: TURAL BUTTES		
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2085 FSL 1026 FWL		INTY: ITAH		
QTR/QTR, SECTION, TOWNSH Qtr/Qtr: NWSW Section:	STA [*] UT/			
11. CHECI	K APPROPRIATE BOXES TO INDICA	TE NATURE OF NOTICE,	REPORT, O	R OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTI	ON	
	ACIDIZE	ALTER CASING		CASING REPAIR
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING		CHANGE WELL NAME
	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMA	ATIONS	CONVERT WELL TYPE
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	FRACTURE TREAT		NEW CONSTRUCTION
	OPERATOR CHANGE	PLUG AND ABANDON		PLUG BACK
SPUD REPORT	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE		RECOMPLETE DIFFERENT FORMATION
Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL		TEMPORARY ABANDON
	TUBING REPAIR	VENT OR FLARE		WATER DISPOSAL
DRILLING REPORT Report Date:	WATER SHUTOFF	SI TA STATUS EXTENSION		APD EXTENSION
12/17/2014	WILDCAT WELL DETERMINATION	OTHER		OTHER:
	COMPLETED OPERATIONS. Clearly show 9,208'. WAITING ON COMPL BEGIN. THANK YOU.		S TO	Accepted by the Utah Division of Oil, Gas and Mining OR RECORD ONLY December 17, 2014
NAME (PLEASE PRINT)	PHONE NUME	BER TITLE		
Kay E. Kelly	720 929 6582	Regulatory Analyst		
SIGNATURE N/A		DATE 12/17/2014		

Sundry Number: 59910 API Well Number: 43047535060000

	STATE OF UTAH DEPARTMENT OF NATURAL RESOUR		FORM 9				
ı	5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-0149077						
SUNDR	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:						
Do not use this form for procurrent bottom-hole depth, IFOR PERMIT TO DRILL form	7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES						
1. TYPE OF WELL Gas Well	TYPE OF WELL						
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ON	9. API NUMBER: 43047535060000						
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th	9. FIELD and POOL or WILDCAT: 6 INATERAL BUTTES						
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2085 FSL 1026 FWL	COUNTY: UINTAH						
QTR/QTR, SECTION, TOWNSH Qtr/Qtr: NWSW Section:	ridian: S	STATE: UTAH					
11. CHECI	K APPROPRIATE BOXES TO INDICA	ATE NATURE OF NOTICE, REPOI	RT, OR OTHER DATA				
TYPE OF SUBMISSION		TYPE OF ACTION					
	ACIDIZE	ALTER CASING	CASING REPAIR				
NOTICE OF INTENT	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME				
Approximate date work will start:	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE				
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	FRACTURE TREAT	NEW CONSTRUCTION				
1/14/2015	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK				
	✓ PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION				
SPUD REPORT Date of Spud:							
	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	LI TEMPORARY ABANDON				
DRILLING REPORT	L TUBING REPAIR	☐ VENT OR FLARE ☐	WATER DISPOSAL				
Report Date:	WATER SHUTOFF	SI TA STATUS EXTENSION	APD EXTENSION				
	WILDCAT WELL DETERMINATION	OTHER	OTHER:				
The NBU 922-34F	COMPLETED OPERATIONS. Clearly show 4CS was placed on productompletion. Producing from the	tion 01/14/2015 after a	Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY January 15, 2015				
NAME (PLEASE PRINT) Doreen Green	PHONE NUMI 435 781-9758	BER TITLE Regulatory Analyst II					
SIGNATURE		DATE					
N/A		1/15/2015					

FORM 3160-4 (March 2012)				DEPAI		OF THE	INTERIOR AGEMENT				5 14	ease Seria	OM Expire	ORM APPROVIDE NO. 1004-0 ces: October 31	0137	
		WELI	L COMP				ETION REP	ORT A	ND LO)G		UTU01				
Type of Well Type of Comple		Oil We	ll ✓ Gas V /ell Work	Vell	Dry	Other Plug Back	Diff. Resvr.					-	llottee or T			
			Other								- 1		_	t Name and N	0.	
Name of Operator					Contact:		D C					UTU63	047A e and Well	No		
KERR-MCGEE		GAS	ONSHORI	EID		reen.Green@ar	Doreen Gr	een			0. 1.	ase ivallic		^{NO.} 922-34F40	25	
3. Address			ONSTION	L LI			. Phone No. (inclu	de area co	de)		9. A	PI Well N		722-34140	.0	
	P.O. Box 173 Denver	7779 CO 82	2017				720-929-600	00			4	43-047-	-53506			
4. Location of Well	(Report locat	ion clearl	ly and in acco	rdance with F	ederal require	ements)*					10. I	Field and I	Pool, or Ex	ploratory		
At Surface		NWS	W 2085 F	SL 1026 F	WL La	t. 39.99	099 Lo	ng. 109	.43191	6		Natural		N1 1 C	A	
At top prod. interval rep	ported below	SENV	W 2414 FN	NL 2145 F	WL						- 1	sec., г., к 34 Т		Block and Surv	Mer S	
At total depth		SENV	W 2405 FN	NL 2153 F	WL La	it. 39.99	31993 Lo	ng. 109	.42789	36	12.	County o	r Parish	13.	State	UT
14. Date Spudded		15. Da	ate T.D. Reac	hed	16.	Date Comple				n .	17. I			, RT, GL)*		
1/8/20	14		5/12	2/2014			0&A	√	Ready to	9 Prod. 4/201	.5		5,007	RK	В	
	MD TVD	9,2 8,9		19. Plug bac	k T.D.: ME		9,153 8,926				Bridge Plu	-	MD TVD			
21. Type Electric &				copy of each)	1 1	<u> </u>	0,720		22. Was	well co	red?	√		Yes (Sub	mit ana	llysis)
TRIPLE COMBO, R	ADIAL CEMI	ENT BON	ND GAMMA	RAY CCL TE	EMP					DST ru	in? Survey?	✓		Yes (Sub		
23. Casing and Liner	Record (Repo	ort all stri	ngs set in well	1)										(-37
Hole Size	Size/ Gra	de	Wt. (#/ft.)	Тор	(MD)	Bottom (MD)	Stage Cement	er Depth		ks. & T Cement	ype of	Slurry Vo	l. (BBL)	Cement To	p*	Amount Pulled
24.000	14 S	STL	36.7		0	40				81					\dashv	
11.000		-55	28.0	_	8	2,526				,200				0		
7.875	4.5 I	-80	11.6	1	8	9,201]	,700	-			2129	+	
24 7 1 2 2 1																
24. Tubing Record Size	Depth Se	et (MD)	Packer I	Depth (MD)	Size	De	pth Set (MD)	Packer	Depth (N	m) I	Siz	e I	Denth	Set (MD)	Pack	er Depth (MD)
2.375	·	8,52		-F' ()		-	F. 22. ()		11.					,		111()
25. Producing Inte			1 ,				Perforation Reco				a:	1 37	CYY 1		D C	G
A)	mation MESA VEI	RDE		Гор ,932	9,208		Perforated I		10		Size 0.410	No	o. of Hole 168	Opei		Status
B)				,,,,,,	7,200		7,130	, ,,,			0.110		100	Орел		
C)																
D) 27. Acid, Fracture	Trantmant	Comon	t Causaga a	to												
	pth Interval	, Cemen	i Squeeze, e	ic.				Amount an	d Type o	f Mate	rial					
7,138	- 9,1	10	PUM	IP 10,200 B	BLS SLICK	WATER, 42	BBLS HCL AC	ID (12.5%	-18%),	216,28	8 LBS 3	0/50 ME	ESH SAN	D		
28. Producti	ion- Interval	A	Production	on Method	Flows Fron	n Well	W	ell Status	Produ	cing G	as Well		▼	1		
Date First	Test Date			Test	Oil	Gas	Water	Oil Gravit	-	Gas				s.		
Produced 1/14/2015	2/10/201		ested 1	Production	BBL 22	MCF 2079	BBL 337	Corr. API		Gravity	7					
Choke Size	Tbg. Press Flwg. SI		sg. 2	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio								
18/64	1357		1606	\rightarrow	22	2079	337									
28a. Producti	on- Interval	В			·	1	<u> </u>									
Date First Produced	Test Date			Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravit Corr. API		Gas Gravity	7					
				→		, inci		Con. AFI		Siavity	,					
Choke	Tbg. Press		-	24 Hr. Rate	Oil	Gas	Water	Gas/Oil								
Size	Flwg. SI	Pr	ess.		BBL	MCF	BBL	Ratio								

^{*(}See instructions and spaces for additional data on page 2)

Sundry Number: 60885 API Well Number: 43047535060000 28b. Production- Interval C Date First Test Date Water Oil Gravity Hours Test Oil Gas Gas Gravity Produced Tested Production BBL MCF BBL Corr. API Choke 24 Hr. Rate Tbg. Press Csg. Gas Water Gas/Oil Press. BBL MCF BBL Flwg. SI Ratio Size 28c. Production- Interval D Test Date Date First Hours Γest Water Oil Gravity Produced Production BBL MCF BBL Corr. API Choke Gas/Oil Tbg. Press Csg. 24 Hr. Rate Oil Gas Water BBL MCF BBL Flwg. SI Press. Ratio Size 29. Disposition of Gas (Sold, used for fuel, vented, etc.) 30. Summary of Porous Zones (include Aquifers): 31. Formation (Log) Markers: Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries. Тор Formation Descriptions, Contents, Etc. Top Bottom Name Meas. Depth GREEN RIVER 1138 BIRD'S NEST 1518 MAHOGANY 2034 WASATCH 4611 MESA VERDE 6932 32. Additional remarks (include plugging procedure): 33. Indicate which items have been attached by placing a check in the appropriate boxes: DST Report Electrical/Mechanical Logs (1 full set req'd) Geologic Report ✓ Directional Survey Sundry Notice for plugging and cement verification Core Analysis 34. Thereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)* Name (please print) Regulatory Analyst II Signature Date 2/12/2015

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 3) (Forms 3160-4, page 2)

					U	S ROC	KIES RI	EGION	
					Opera	tion S	Summa	ry Report	
Well: NBU 922-3	4F4CS F	RED						Spud date: 2/2	21/2014
Project: UTAH-U	INTAH			Site: NBU	922-34L	PAD			Rig name no.: SST 57/57, CAPSTAR 310/310
Event: DRILLING	3			Start date	: 2/21/20	14			End date: 5/14/2014
Active datum: RI	KB @5,00	07.00usft (at	bove Mean S	ea	UWI: NV	N/SW/0/9	9/S/22/E/3	4/0/0/26/PM/S/2	085/W/0/1026/0/0
Date		Time art-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation
2/21/2014	2:00	- 6:00	4.00	MIRU	01	E	Р	58	WAIT ON DAYLIGHT
	6:00	- 7:00	1.00	MIRU	01	E	Р	58	RIG DOWN
	7:00	- 16:00	9.00	MIRU	01	Α	Р	58	CONDUCT JSA WITH TRUCKS TO MOVE RIG / MOVE RIG FROM NBU 921-23K4BS TO THE NBU 922-34F4CS, WELL 1 OF 8. HOWCROFT FIELD SERVICES HAD 12 TRUCKS 3 SWAMPER 1 PUSHER/SAFETY MAN 2 PILOT CARS 1 FORKLIFT
		- 17:30	1.50	MIRU	01	В	Р	58	WELD ON RATATING HEAD / RIG UP FLOW LINE
	17:30	- 20:30	3.00	MIRU	01	В	Р	58	CONTINUE RIGGING UP / CHANGE VALVE & SEATS IN PUMPS / CHANGE SHAKER SCREENS
	20:30	- 22:30	2.00	MIRU	01	В	Р	58	SET UP PIPE RACKS / LOAD BHA / PICK UP BHA AND TAG @ 49' / AIR OUT PUMPS
		- 23:00	0.50	MIRU	23	В	Р	58	PRE SPUD SAFETY MEETING
		- 0:00	1.00	DRLSUR	02	В	Р	58	DRILL 12 1/4 SURFACE HOLE F/ 49' TO 200', 151' @ 151 FPH WOB = 8 TO 12K ROTORY RPM = 65 MUD MOTOR RPM = 111 TOTAL = 166 PUMPING 650 GPM @ 200 SPM STAND PIPE PRESSURE ON/OFF = 800/600 TORQUE ON/OFF = 2000/740 PU = 30 / SO = 28 / ROT = 28 PEAK ON LINE ARCHER OFF
2/22/2014	0:00	- 1:00	1.00	DRLSUR	06	Α	Р	209	TRIP OUT OF HOLE
	1:00	- 1:30	0.50	DRLSUR	09	A	Р	209	SLIP AND CUT DRILLING LINE
	1:30	- 3:30	2.00	DRLSUR	06	A	Р	209	MAKE UPO 11" BIT / PICK UP DIERCTIONAL TOOLS / TRIP IN HOLE
	5.30	- 5:30	2.00	DRLSUR	02	В	P	209	DRILL 11" SURFACE HOLE F/ 200' TO 391', 191' @ 95.5' FPH WOB = 15 TO 19K ROTORY RPM = 60 / MUD MOTOR RPM = 111 / TOTAL = 171 PUMPING 533 GPM @ 174 SPM STAND PIPE PRESSURE ON/OFF = 900/650 TORQUE ON/OFF = 2,560/1450 PU = 52 / SO = 45 / ROT = 49 PEAK ON LINE ARCHER OFF LINE MUD WT 8.4 SLID 22' = 11.52% 1.09' ABOVE & .35' RIGHT OF THE LINE NO HOLE ISSUES
	5:30	- 6:00	0.50	DRLSUR	07	С	Р	400	CHANGE ROTATING HEAD RUBBER

Sundry	Number: 0	60885	APT We	מ ווי	Iumbe	r: 4	3047535	060000
				U	S ROCI	KIES R	EGION	
				Opera	tion S	umma	ary Report	
Well: NBU 922-3	34F4CS RED						Spud date: 2/2	1/2014
Project: UTAH-L	JINTAH		Site: NBL	J 922-34L	PAD			Rig name no.: SST 57/57, CAPSTAR 310/310
Event: DRILLING	Event: DRILLING Start date: 2/21/2014 End date: 5/14/2014							End date: 5/14/2014
Active datum: R	KB @5,007.00usft (ab	ove Mean S	ea	UWI: NV	V/SW/0/9	/S/22/E/3	34/0/0/26/PM/S/20	085/W/0/1026/0/0
Level)								
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation
	6:00 - 12:00	6.00	DRLSUR	02	В	P	400	DRILL 11" SURFACE HOLE F/ 391' TO 1,109', 718' @ 119.7' FPH WOB = 18 TO 23K ROTORY RPM = 60 / MUD MOTOR RPM = 111 / TOTAL = 171 PUMPING 533 GPM @ 174 SPM STAND PIPE PRESSURE ON/OFF = 900/650 TORQUE ON/OFF = 2,900/2000 PU = 57 / SO = 52 / ROT = 54 PEAK ON LINE ARCHER OFF LINE MUD WT 8.4 SLID 142' = 19.75% 5.04' ABOVE & 1.72 LEFT OF THE LINE NO HOLE ISSUES
	12:00 - 17:00	5.00	DRLSUR	02	В	P	1118	DRILL 11" SURFACE HOLE F/ 1,109' TO 1,517', 408' @ 81.6' FPH WOB = 18 TO 23K ROTORY RPM = 60 / MUD MOTOR RPM = 111 / TOTAL = 171 PUMPING 533 GPM @ 174 SPM STAND PIPE PRESSURE ON/OFF = 900/650 TORQUE ON/OFF = 2,900/2000 PU = 76 / SO = 70 / ROT = 72 PEAK ON LINE ARCHER OFF LINE MUD WT 8.4 SLID 112' = 27.52% 2.79' ABOVE & .47' LEFT OF THE LINE NO HOLE ISSUES
	17:00 - 17:30	0.50	DRLSUR	07	Α	Р	1526	RIG SERVICE
	17:30 - 18:00	0.50	DRLSUR	22	L	Z	1526	***WORK ON FLOW LINE: THE FLOW LINE VIBRATED APART, WE EXTENDED THE PIECE THAT SLIDES IN THE AIR BOOT AND AIRED UP THE BOOT AND PUT A CHAIN AND BOOMER ON IT
	18:00 - 0:00	6.00	DRLSUR	02	В	P	1526	DRILL 11" SURFACE HOLE F/ 1,517' TO 1,955', 438' @ 73' FPH WOB = 18 TO 23K ROTORY RPM = 60 / MUD MOTOR RPM = 77 / TOTAL = 137 PUMPING 455 GPM @ 139 SPM STAND PIPE PRESSURE ON/OFF = 900/650 TORQUE ON/OFF = 2,900/2000 PU = 85 / SO = 70 / ROT = 78 PEAK ON LINE ARCHER OFF LINE MUD WT 8.4 SLID 109' = 24.94% 3.08' ABOVE & 2.91' LEFT OF THE LINE NO HOLE ISSUES

				Onera	ition S	lumma	ry Report	
Malla NIDLI 000	04E400 BED			Opera		umma	Spud date: 2/2	14/2044
Vell: NBU 922- Project: UTAH-U			Site: NBL	1 022 341	DAD		Spuu uate. 2/2	Rig name no.: SST 57/57, CAPSTAR 310/310
Event: DRILLIN		shava Maan C	Start date			 S 22 E 3	1/0/0/26/PM/S/2	End date: 5/14/2014 085/W/0/1026/0/0
evel)	RKB @5,007.00usft (a	above iviean 5	ea	OVVI. IV	vv/Ovv/o/s	// O/ ZZ/ L/ O-	*/0/0/20/1 WI/O/2	003/11/0/1020/0/0
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation
2/23/2014	0:00 - 6:00	6.00	DRLSUR	02	В	Р	1964	DRILL 11" SURFACE HOLE F/ 1,955' TO 2,381', 426' @ 71' FPH WOB = 18 TO 23K ROTORY RPM = 60 / MUD MOTOR RPM = 77 / TOTAI = 137 PUMPING 455 GPM @ 139 SPM STAND PIPE PRESSURE ON/OFF = 900/650 TORQUE ON/OFF = 2,900/2000 PU = 90 / SO = 80 / ROT = 86 PEAK ON LINE ARCHER OFF LINE MUD WT 8.4 SLID 81' = 19.01% 4.0' ABOVE & 2.8' RIGHT OF THE LINE NO HOLE ISSUES
	6:00 - 8:00	2.00	DRLSUR	02	В	P	2390	DRILL 11" SURFACE HOLE F/ 2,381' TO 2,550', 169' @ 67.6' FPH WOB = 18 TO 23K ROTORY RPM = 60 / MUD MOTOR RPM = 77 / TOTAL = 137 PUMPING 455 GPM @ 139 SPM STAND PIPE PRESSURE ON/OFF = 900/650 TORQUE ON/OFF = 2,900/2000 PU = 90 / SO = 80 / ROT = 86 PEAK ON LINE ARCHER OFF LINE MUD WT 8.4 SLID 30' = 17.65% 1.06' ABOVE & 4.68' RIGHT OF THE LINE NO HOLE ISSUES
	8:00 - 10:30	2.50	DRLSUR	05	Α	Р	2559	SURVEY / CIRCULATE AND CONDITION HOLE / PUMHEAVY MUD
	10:30 - 14:00	3.50	DRLSUR	06	D	Р	2559	LAY DOWN DRILL PIPE / BHA / DIRECTIONAL TOOLS
	14:00 - 14:30	0.50	CSGSUR	12	Α	Р	2559	RIG DOWN CUSHION SUB / RIG UP CASING SPEAR
	14:30 - 17:00	2.50	CSGSUR	12	С	Р	2559	PREJOB SAFETY WITH RIG CREW. RAN 57 JTS OF 5/8", 28#, J-55, LT&C CASING WITH CTE FLOAT GUIDE SHOE AND BAFFLE PLATE LOCATED 1 JOIN' ABOVE THE SHOE. 5 CENTRALIZERS SPACED 10' ABOVE THE SHOE, 2ND & 3RD COLLARS, AND EVERY THIRD COLLAR TO 2,129'. LANDED CASING
	17:00 - 17:20	0.50	CCCCLIB	05	D	В	2550	SHOE AT 2,517'. BAFFLE PLATE @ 2,471'.

17:00 - 17:30

0.50

CSGSUR

05

D

Р

2559

FILL PIPE / CIRCULATE

<u> Sundry Number: 60885 API Well Number: 43047535060000</u> **US ROCKIES REGION Operation Summary Report** Well: NBU 922-34F4CS RED Spud date: 2/21/2014 Project: UTAH-UINTAH Site: NBU 922-34L PAD Rig name no.: SST 57/57, CAPSTAR 310/310 **Event: DRILLING** End date: 5/14/2014 Start date: 2/21/2014 UWI: NW/SW/0/9/S/22/E/34/0/0/26/PM/S/2085/W/0/1026/0/0 Active datum: RKB @5,007.00usft (above Mean Sea P/U Date Time Duration Phase Code Sub MD from Operation Start-End (hr) Code (usft) 17:30 - 22:30 5.00 **CSGSUR** 2559 PREJOB SAFETY MEETING WITH PRO PETRO CEMENTERS & RIG CREW. TESTED LINES TO 2500 PSI PUMPED 147 BBLS FRESH WATER CLEARING SHOE RETURNS TO SURFACE MIXED AND PUMPED 20 BBL GELLED WATER FLUSH AHEAD OF CEMENT MIXED AND PUMPED 300 SX OF PREMIUM LEAD CEMENT WITH 2% CACL2 & 1/4 LB/SX FLOCELE. 61.4 BBL OF SLURRY MIXED @ 12.0 PPG WITH YIELD OF 2.86 CF/SX. DROP PLUG ON FLY. DISPLACE CEMENT WIITH 154.2 BBL FRESH WATER. RETURNS THROUGH OUT DISPLACEMENT. FINAL LIFT OF 250 PSI @ 3 BBL/MINUTE. BUMP PLUG WITH 350 PSI. HELD 650 PSI FOR 5 MINUTES. CHECK FLOAT. FLOAT HELD. TOP JOB # 1: PUMP CEMENT DOWN 1" PIPE WITH 150 SX PREMIUM CEMENT WITH 4% CACL2, 2% GR-3, & 1/4 LB/SX FLOCELE. 30.7 BBL OF SLURRY MIXED @ 15.8 PPG WITH YIELD OF 1.15 CF/SX. WAIT ON CEMENT 2 HRS TOP JOB # 2: PUMP CEMENT DOWN 1" PIPE WITH 125 SX PREMIUM CEMENT WITH 4% CACL2, 2% GR-3, & 1/4 LB/SX FLOCELE. 25.6 BBL OF SLURRY MIXED @ 15.8 PPG WITH YIELD OF 1.15 CF/SX RELEASE RIG 02/23/2014 @ 10:30 RELEASE CEMENTERS 14:00 - 0:00 5/7/2014 10.00 MIRU3 01 Ε 2559 RIG DOWN -RIG DOWN TOP DRIVE, RIG FLOOR, 4" MUD LINES, FLOW LINE, FLAIR LINE'S, MUD TANKS, MUD PUMPS, ELECTRICAL -HAD 1 BED TRUCK, 1 POLE TRUCK, 1 FORKLIFT AND 1 HAUL TRUCK TO START HAULING PIPE TUBS & 400 BBL UPRIGHTS HAUL CAMPS AND MISCELLANEOUS EQUIPMENT LOWER TOP DRIVE @ 16 HRS LOWER DERRICK @ 1800 HRS TRANSFER MUD TO LOCATION 0:00 5/8/2014 - 6:00 6.00 MIRU3 Ε 2559 FINISH RIGGING DOWN RIG FLOOR & BACKYARD ELECTRICAL LINES - HAUL MUD TO NEW LOCATION 6:00 - 20:00 14.00 MIRU3 Ρ 2559 MOVE RIG WITH JD FIELD SERVICES - HAD 5 HAUL TRUCKS, 1 POLE TRUCK, 2 BED TRUCKS, 2 FORKLIFTS, 2 PUSHERS & 2 SWAMPERS - J&C CRANE WITH RIGGER - SET OUT BACK YARD AND SPLIT SUB SET IN BACK YARD & PUT SUB TOGERTHOR - SET DRAWWORKS & DERRICK ON RIG FLOOR CRANE RELEASED @ 1900 HRS - TRUCKS RELEASED @ 2000 HRS

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<u> Sundry Number: 60885 API Well Number: 43047535060000</u> US ROCKIES REGION **Operation Summary Report** Well: NBU 922-34F4CS RED Spud date: 2/21/2014 Project: UTAH-UINTAH Site: NBU 922-34L PAD Rig name no.: SST 57/57, CAPSTAR 310/310 **Event: DRILLING** End date: 5/14/2014 Start date: 2/21/2014 UWI: NW/SW/0/9/S/22/E/34/0/0/26/PM/S/2085/W/0/1026/0/0 Active datum: RKB @5,007.00usft (above Mean Sea P/U Date Phase Time Duration Code Sub MD from Operation Start-End (hr) Code (usft) 20:00 - 0:00 4.00 MIRU3 01 Ρ 2559 В RIG UP ELECTRICAL LINES, MUD LINES, & FLARE LINES - FILL MUD TANKS 0:00 - 9:30 9.50 MIRU3 Ρ 2559 5/9/2014 01 В RIG UP BACKYARD - FILL MUD TANKS - SLIP ON DRILLING LINE - RAISE DERRICK @ 0600 HRS -INSTALL TOP DRIVE @ 0930 TRUCK FOR TOP DRIVE 1 HR LATE 9:30 - 11:30 2.00 Р 2559 PRPSPD 14 Α NIPPLE UP BOP'S - CHOKE & KILL LINES / ROTATING **HEAD & FLOW LINE** 11:30 - 15:00 3.50 **PRPSPD** 15 Ρ 2559 HOLD SAFETY MEETING, RUN TEST ASSY, TEST BOP WITH A-1 TESTERS - TEST ANNULAR TO 250 PSI LOW/ 5 MIN 2500 PSI HIGH 10 MIN, PIPE & BLIND RAMS, FLOOR VALVES, IBOP, HCR VALVE, KILL LINE VALVES, TEST BOP'S, CHOKE MANIFOLD TO 250 PSI LOW/ 5 MIN - 5000 PSI HIGH 10 MIN, HOLD ACCUMULATOR FUNCTION TEST, TEST CSG 1500 PSI - 30 MIN, RIG DOWN 15:00 - 15:30 0.50 **PRPSPD** 14 В 2559 **INSTALL WEAR BUSHING** 15:30 - 16:30 1.00 **PRPSPD** 06 Р 2559 PICK UP SCIENTIFIC 6 1/2", 1.5 BEND, HR, 7/8 LOBE, 3.3 STAGE 0.16 RPG MUD MOTOR, (SER #6494-114) - MAKE UP SECURITY MM65M PDC BIT, DRESSED WITH 6 X 16 JETS, (TFA = 1.178), SER #12232818 - INSTALL MWD TOOL, ORIENT & **SCRIBE** PICK UP DRILL PIPE & TRIP IN HOLE TO TOC AT 2410' 16:30 - 20:30 4.00 **PRPSPD** 06 Ρ 2559 / INSTALL ROTATING RUBBER 20:30 - 21:30 1.00 DRLPRC F Ρ 2559 02 DRILL CEMENT & FLOAT EQUIPMENT, CLEAN OUT TO 2559 21:30 - 0:00 2.50 **DRLPRC** Ρ 2559 02 D DIR DRILL FROM 2559' TO 2930' = 371' = 148.4 FPH 18-22K ON BIT 120 SPM = 590 GPM - MOTOR = 135 RPM 50-70 RPM ON TOP DRIVE 4-9K FT/LBS TORQUE 1650 PSI ON BTM - 1250 PSI OFF BTM P/U = 100K - SO = 75K - ROT = 85K HOLE IN GOOD SHAPE SLIDE 22% OF TIME & 27% OF FOOTAGE **BOS DEWATERING - RUNNING CENTRIFUGE - RUNNING**

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RECEIVED: Feb. 12, 2015

MUD CLEANER - RUNNING MUD WT = 8.4 - VIS = 26

				U	S ROCI	KIES RI	EGION	
				Opera	tion S	umma	ry Report	
ell: NBU 922-34	F4CS RED						Spud date: 2/2	1/2014
oject: UTAH-UII	NTAH		Site: NBL	J 922-34L	. PAD			Rig name no.: SST 57/57, CAPSTAR 310/310
ent: DRILLING			Start date	: 2/21/20	14			End date: 5/14/2014
ctive datum: RK evel)	B @5,007.00usft (ab	ove Mean Se	ea	UWI: N\	N/SW/0/9	/S/22/E/3	4/0/0/26/PM/S/20	085/W/0/1026/0/0
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation
5/10/2014	0:00 - 8:00	8.00	DRLPRV	02	В	P	2930	DIRECTIONAL DRILL 7 7/8 PRODUCTION HOLE FROM / 2930' TO / 3,805' = 875' @ 109.4' PER HOUR WEIGHT ON BIT = 18-24K STROKES PER MINUTE 2 PUMP @ 60/60 GALLONS PER MINUTE = 590 MUD MOTOR RPM = 85, TOP DRIVE RPM = 50-70, TOTAL RPM = 123-143 FT/LBS TORQUE = 6-12K STAND PIPE PRESSURE ON BOTTOM = 1750 STAND PIPE PRESSURE OF BOTTOM = 1,300 STRING WEIGHT UP/DOWN/ROTATING = 125K / 85K / 105K DRAG = 20K HOLE IN GOOD CONDITION SLIDE 33% OF TIME AND 29% OF FOOTAGE CURRENTLY 2.67' NORTH & 8.78' WEST OF PLAN LINE BOS DE-WATERING - RUNNING CENTRIFUGE - RUNNING MUD WEIGHT = 8.5 PPG VISCOSITY = 27 SECONDS DRILLING WITH FLOWZAN MUD SYSTEM MIXING HIGH VISCOSITY SWEEPS WITH CALCARB
	8:00 - 15:30	7.50	DRLPRV	02	В	P	3805	DIRECTIONAL DRILL 7 7/8 PRODUCTION HOLE FROM / 3805' TO / 4533' = 728' @ 97.1' PER HOUR WEIGHT ON BIT = 18-24K STROKES PER MINUTE 2 PUMP @ 60/60 GALLONS PER MINUTE = 590 MUD MOTOR RPM = 85, TOP DRIVE RPM = 50-70, TOTAL RPM = 123-143 FT/LBS TORQUE = 8-14K STAND PIPE PRESSURE ON BOTTOM = 1750 STAND PIPE PRESSURE OFF BOTTOM = 1,300 STRING WEIGHT UP/DOWN/ROTATING = 155K / 90K / 120K DRAG = 35K HOLE IN GOOD CONDITION SLIDE 66% OF TIME & 53% OF FOOTAGE CURRENTLY 25' SOUTH & 7.3' WEST OF PLAN LINE BOS DE-WATERING - RUNNING CENTRIFUGE - RUNNING MUD WEIGHT = 8.5 PPG VISCOSITY = 27 DRILLING WITH FLOWZAN MUD SYSTEM MIXING HIGH VISCOSITY SWEEPS WITH CALCARB

		US ROCKIES R	EGION		
	Ор	peration Summa	ry Report		
Well: NBU 922-34F4CS RED			Spud date: 2/21/	/2014	
Project: UTAH-UINTAH	Site: NBU 922	22-34L PAD		Rig name no.: SST 57/57, CAPSTAR 310/310	
Event: DRILLING	Start date: 2/2	/21/2014		End date: 5/14/2014	
Active datum: RKB @5,007.00usft (above Meevel)	· · · · · · · · · · · · · · · · · · ·	WI: NW/SW/0/9/S/22/E/3	4/0/0/26/PM/S/208	35/W/0/1026/0/0	
Date Time Dui	tion Phase Co	Code Sub P/U	MD from (usft)	Operation	
		02 B P	4533	DIRECTIONAL DRILL 7 7/8 PRODUCTION HOLE FROM / 4533' TO / 5482' = 949' @ 118.6' PER HOUR WEIGHT ON BIT = 18-24K STROKES PER MINUTE 2 PUMP @ 60/60 GALLONS PER MINUTE = 590 MUD MOTOR RPM = 85, TOP DRIVE RPM = 50-70, TOTAL RPM = 123-143 FT/LBS TORQUE = 8-14K STAND PIPE PRESSURE ON BOTTOM = 1750 STAND PIPE PRESSURE OFF BOTTOM = 1,300 STRING WEIGHT UP/DOWN/ROTATING = 180K / 95K / 130K DRAG = 50K HOLE IN GOOD CONDITION SLIDE 43% OF TIME & 35% OF FOOTAGE CURRENTLY 6.21' NORTH & 6.83' WEST OF PLAN LINE BOS DE-WATERING - RUNNING CENTRIFUGE - RUNNING DE-SANDER - RUNNING MUD WEIGHT = 8.5 PPG VISCOSITY = 27 DRILLING WITH FLOWZAN MUD SYSTEM	
5/11/2014 0:00 - 8:00 8	0 DRLPRV C	02 B P	5482	MIXING HIGH VISCOSITY SWEEPS WITH CALCARB DIRECTIONAL DRILL 7 7/8 PRODUCTION HOLE FROM / 5482' TO / 6350' = 868' @ 108.5' PER HOUR WEIGHT ON BIT = 18-24K STROKES PER MINUTE 2 PUMP @ 60/60 GALLONS PER MINUTE = 590 MUD MOTOR RPM = 85, TOP DRIVE RPM = 50-70, TOTAL RPM = 123-143 FT/LBS TORQUE = 9-16K STAND PIPE PRESSURE ON BOTTOM = 1900 STAND PIPE PRESSURE OFF BOTTOM = 1600 STRING WEIGHT UP/DOWN/ROTATING = 200K / 100K / 135K DRAG = 50K HOLE IN GOOD CONDITION SLIDE 6% OF TIME & 3% OF FOOTAGE BOS DE-WATERING - RUNNING CENTRIFUGE - RUNNING DE-SANDER - RUNNING MUD WEIGHT = 8.5 PPG VISCOSITY = 27 DRILLING WITH FLOWZAN MUD SYSTEM	

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A/all, NIDLL 000 0	14E400 DED			Opera	mon S	oumma	ry Report	04/2014
Well: NBU 922-3			Cito: NDI	1 000 041	DAD		Spud date: 2/2	
Project: UTAH-U			Site: NBL			1		Rig name no.: SST 57/57, CAPSTAR 310/310
Event: DRILLING			Start date	1)(0)(00)(E)(0	4 10 10 10 0 1DN 410 10	End date: 5/14/2014
ctive datum: Rh evel)	KB @5,007.00usft (at	oove Mean S	ea	UWI: N	/V/SVV/U/S	9/S/22/E/34	4/0/0/26/PM/S/2	085/W/0/1026/0/0
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation
	8:00 - 16:00	8.00	DRLPRV	02	В	P	6350	DIRECTIONAL DRILL 7 7/8 PRODUCTION HOLE FROM / 6350' TO / 7001' = 651' @ 81.4' PER HOUR WEIGHT ON BIT = 18-24K STROKES PER MINUTE 2 PUMP @ 60/60 GALLONS PER MINUTE = 590 MUD MOTOR RPM = 85, TOP DRIVE RPM = 50-70, TOTAL RPM = 123-143 FT/LBS TORQUE = 9-16K STAND PIPE PRESSURE ON BOTTOM = 1950 STAND PIPE PRESSURE OFF BOTTOM = 1650 STRING WEIGHT UP/DOWN/ROTATING = 230K / 115k/ / 145K DRAG = 85K HOLE IN GOOD CONDITION SLIDE 23% OF TIME & 18% OF FOOTAGE BOS DE-WATERING - OFF CENTRIFUGE - RUNNING DE-SANDER - RUNNING MUD WEIGHT = 8.5 PPG VISCOSITY = 27 DRILLING WITH FLOWZAN MUD SYSTEM MIXING HIGH VISCOSITY SWEEPS WITH CALCARB
	16:00 - 16:30	0.50	DRLPRV	07	Α	Р	7001	LUBRICATE RIG
	16:30 - 0:00	7.50	DRLPRV	02	В	P	7001	DIRECTIONAL DRILL 7 7/8 PRODUCTION HOLE FROM / 7001' TO / 7711' = 710' @ 94.7' PER HOUR WEIGHT ON BIT = 18-24K STROKES PER MINUTE 2 PUMP @ 60/60 GALLONS PER MINUTE = 590 MUD MOTOR RPM = 85, TOP DRIVE RPM = 50-70, TOTAL RPM = 123-143 FT/LBS TORQUE = 9-16K STAND PIPE PRESSURE ON BOTTOM = 2000 STAND PIPE PRESSURE OFF BOTTOM = 1650 STRING WEIGHT UP/DOWN/ROTATING = 240K / 115k / 148K DRAG = 85K HOLE IN GOOD CONDITION SLIDE 7% OF TIME & 3% OF FOOTAGE CURRENTLY 6.75' NORTH & 5.26' WEST OF PLAN BOS DE-WATERING - RUNNING CENTRIFUGE - RUNNING MUD WEIGHT = 8.5 PPG VISCOSITY = 27 DRILLING WITH FLOWZAN MUD SYSTEM

MIXING HIGH VISCOSITY SWEEPS WITH CALCARB

Sundry	Number: 6	50885	APT We					060000				
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				Opera	ition S	umma	ary Report					
Well: NBU 922-3			1.				Spud date: 2/2					
Project: UTAH-U	INTAH		Site: NBL	J 922-34L	. PAD	1		Rig name no.: SST 57/57, CAPSTAR 310/310				
Event: DRILLING			Start date									
Active datum: Rh	KB @5,007.00usft (ab	ove Mean S	ea	UWI: N	W/SW/0/9	/S/22/E/3	34/0/0/26/PM/S/20	085/W/0/1026/0/0				
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation				
5/12/2014	0:00 - 8:00	8.00	DRLPRV	02	В	P	7711	DIRECTIONAL DRILL 7 7/8 PRODUCTION HOLE FROM / 7711' TO / 8404' = 693' @ 86.6' PER HOUR WEIGHT ON BIT = 18-24K STROKES PER MINUTE 2 PUMP @ 60/60 GALLONS PER MINUTE = 590 MUD MOTOR RPM = 85, TOP DRIVE RPM = 50-70, TOTAL RPM = 123-143 FT/LBS TORQUE = 12-20K STAND PIPE PRESSURE ON BOTTOM = 2300 STAND PIPE PRESSURE OFF BOTTOM = 1950 STRING WEIGHT UP/DOWN/ROTATING = 260K / 115K / 150K DRAG = 110K HOLE IN GOOD CONDITION SLIDE 16% OF TIME & 6% OF FOOTAGE BOS DE-WATERING - OFF CENTRIFUGE - RUNNING MUD WEIGHT = 9.1 PPG VISCOSITY = 32 DRILLING WITH FLOWZAN MUD SYSTEM MIXING HIGH VISCOSITY SWEEPS WITH CALCARB 10-15' FLARE ON CONNECTIONS				
	8:00 - 12:00	4.00	DRLPRV	02	В	P	8404	DIRECTIONAL DRILL 7 7/8 PRODUCTION HOLE FROM / 8404' TO / 8684' = 280' @ 70' PER HOUR WEIGHT ON BIT = 18-24K STROKES PER MINUTE 1 PUMP @ 105 STKS - GALLONS PER MINUTE = 515 MUD MOTOR RPM = 72, TOP DRIVE RPM = 50-70, TOTAL RPM = 123-143 FT/LBS TORQUE = 12-21K STAND PIPE PRESSURE ON BOTTOM = 1850 STAND PIPE PRESSURE OFF BOTTOM = 1600 STRING WEIGHT UP/DOWN/ROTATING = 260K / 115K / 150K DRAG = 110K HOLE IN GOOD CONDITION SLIDE 7% OF TIME & 3% OF FOOTAGE CURRENTLY 6.75' NORTH & 5.26' WEST OF PLAN BOS DE-WATERING - OFF CENTRIFUGE - OFF DE-SANDER - RUNNING MUD WEIGHT = 9.1 PPG VISCOSITY = 32 DRILLING WITH FLOWZAN MUD SYSTEM MIXING HIGH VISCOSITY SWEEPS WITH CALCARB START TRANSFERING HEAVY MUD @ 8650' TOOK GAS KICK WHILE TRANSFERING MUD - HAD 10-15' FLARE PRIOR TO KICK - 30-50' FLARE WHILE TRYING TO CIRCULATE GAS OUT				
	12:00 - 13:00	1.00	DRLPRV	05	В	Х	8684	***CIRCULATE OUT GAS KICK PUMPING 11.3# MUD DOWN HOLE - HAD 30-50' STRONG FLARE WHILE CIRCULATING KICK OUT - ABLE TO GO BACK TO DRILLING ONC 11# MUD CAME BACK TO SHAKER				

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<u> Sundry Number: 60885 API Well Number: 43047535060000</u> US ROCKIES REGION **Operation Summary Report** Well: NBU 922-34F4CS RED Spud date: 2/21/2014 Project: UTAH-UINTAH Site: NBU 922-34L PAD Rig name no.: SST 57/57, CAPSTAR 310/310 **Event: DRILLING** End date: 5/14/2014 Start date: 2/21/2014 UWI: NW/SW/0/9/S/22/E/34/0/0/26/PM/S/2085/W/0/1026/0/0 Active datum: RKB @5,007.00usft (above Mean Sea P/U Date Time Duration Phase Code Sub MD from Operation Start-End (hr) Code (usft) 3:00 - 8:30 5.50 **DRLPRV** Ρ 9208 06 Α TRIP OUT OF HOLE TO RUN WEATHERFORD SHUTTLE LOGS - BACK REAM OUT 8 STDS OF PIPE - PUMP PILL & BLOW DOWN TOP DRIVE - STRAIGHT PULL @ 280K - TIGHT FROM 4600' TO 3985' - BACK REAM THROUGH - PULL OUT OF HOLE - LAY DOWN MWD TOOLS & MUD MOTOR - 11:30 3.00 **EVALPR** Р 9208 06 J HOLD SAFETY MEETING WITH WEATHERFORD AND RIG CREW - PICK UP SHUTTLE LOGGING TOOLS & PRESSURE TEST 11:30 - 15:30 Р 4.00 **EVALPR** 06 R 9208 TRIP IN HOLE - BREAK CIRCULATION @ 2400', 5260' & 8000' - HOLE IN GOOD SHAPE 15:30 - 16:00 0.50 **EVALPR** 07 Ρ 9208 LUBRICATE RIG 16:00 - 18:00 2.00 **EVALPR** Α Р 9208 05 PUMP DOWN DART TO DEPLOY LOGGING TOOL -CONDITION MUD & CIRCULATE GAS OUT - PUMP LCM SWEEP AROUND - BUILD PILL 10-15' FLARE ON BOTTOMS UP 18:00 - 0:00 6.00 **EVALPR** 06 В Ρ 9208 PUMP PILL - BLOW DOWN TOP DRIVE - TRIP OUT OF HOLE WHILE LOGGING @ 30'/HR TO CASING SHOE - HOLE IN GOOD SHAPE 5/14/2014 0:00 - 2:00 2.00 **EVALPR** Ρ 9208 LAY DOWN ALL SHUTTLE LOGGING TOOLS 06 2.00 - 2:30 0.50 **EVALPR** В 9208 PULL WEAR BUSHING 14 2:30 - 3:30 1.00 **CSGPRO** Ρ 9208 12 Α HOLD SAFETY MEETING / RIG UP WYOMING CASING SERVICE CASING EQUIPMENT 3:30 9208 - 10:00 6.50 **CSGPRO** 12 С Р RAN 94 JTS + 1 MARKER JTS 4 1/2", 11.6#. I80, LT&C CASING + 113 JTS + CROSSOVER + PUP JT, 4 1/2", 11.6#, I80/ DQX CASING, SHOE AT 9200.61', TOP FLOAT COLLAR AT 9153.36', RAN 15 CENT'S -TOP OF MESEVERDE MK JT 6921.51' 10:00 - 11:30 1.50 **CSGPRO** 05 D Р 9208 CIRCULATE / RIG DOWN WYOMING CASING SERVICE CASING TOOLS / RIG UP BAKER CEMENTING EQUIPMENT - CIRCULATE @ 100 SPM = 490 GPM @ 1050 PSI HAD 10-15' FLARE ON BTMS 11:30 - 14:30 3.00 **CSGPRO** 12 Ε 9208 CEMENT W/ BAKER - HOLD SAFETY MEETING -TEST LINES TO 5850 PSI - PUMP 25 BBLS WATER SPACER - 188.4 BBLS LEAD CEMENT 615 SKS @ 13 PPG W/ 1.72 YIELD, MIX & PUMP 260 BBLS TAIL CEMENT 1085 SKS @ 14.3 PPG W/ 1.34 YIELD -WASH UP LINES - DISPLACE W/ 142.3 BBLS WATER - BUMP PLUG TO 3400 PSL - HAD 2790 PSLLIFT PRESSURE PRIOR TO BUMP PLUG / GOOD RETURNS THROUGHOUT JOB - 50 BBI S WATER CEMENT TO SURFACE - RIG DOWN CEMENTERS PUMPED 25% EXCESS OF HOLE VOLUME ON LEAD & TAIL CEMENT EST TOP OF LEAD TO SURFACE EST TOP OF TAIL IS 4114' 14:30 - 15:30 1.00 **CSGPRO** 12 В Ρ 9208 BACK OUT LANDING JT - INSTALL PACK OFF WITH CAMERON HAND - LAY DOWN LANDING JT 15:30 - 16:30 1 00 RDMO 14 Α Р 9208 NIPPLE DOWN BOP - CLEAN MUD TANKS - RELEASE

2/11/2015 2:06:14PM 11

RIG @ 1630 HRS ON 5/14/2014

Sundry Number: 60885 APPdjedde UTIAHN UUTING (teet), 41AD277 Zon 5 02N 000

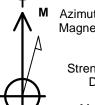
Scientific Drilling

Site: NBU 922-34L PAD Well: NBU 922-34F4CS

Wellbore: OH Design: OH

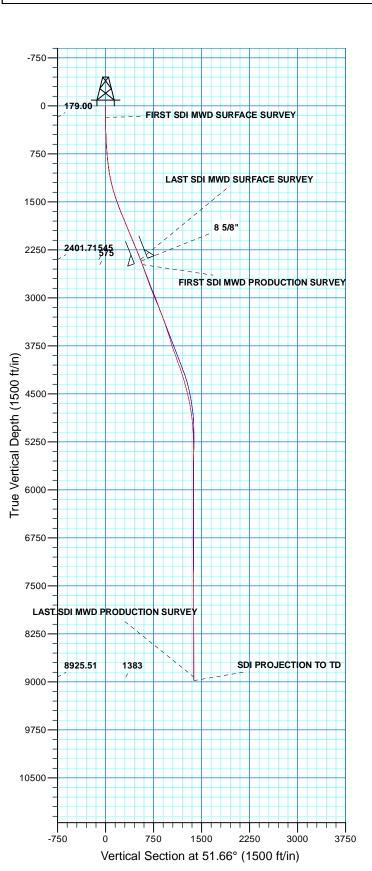


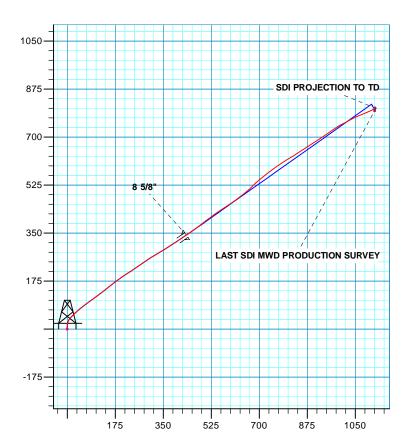
WELL DETAILS: NBU 922-34F4CS GL 4989 & KB 18 @ 5007.00ft (SST 57) +N/-S 0.00 +E/-W Northing 14526642.84 Easting Latitude Longitude -109.4312330 2079830.08 39.9910250



Azimuths to True North Magnetic North: 10.79°

Magnetic Field Strength: 51981.7snT Dip Angle: 65.79° Date: 2/12/2014 Model: BGGM2013





PROJECT DETAILS: UTAH - UTM (feet), NAD27, Zone 12N

Geodetic System: Universal Transverse Mercator (US Survey Feet)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: Zone 12N (114 W to 108 W)
Location: SECTION 34 T9S R22E

System Datum: Mean Sea Level

REC

Design: OH (NBU 922-34F4CS/OH)

Created By: RobertScott Date: 9:15, May 19 2014



US ROCKIES REGION PLANNING

UTAH - UTM (feet), NAD27, Zone 12N NBU 922-34L PAD NBU 922-34F4CS

OH

Design: OH

Standard Survey Report

19 May, 2014





Survey Report

TVD Reference:

MD Reference:

Database:



US ROCKIES REGION PLANNING Company:

Project: UTAH - UTM (feet), NAD27, Zone 12N

NBU 922-34L PAD Site: NBU 922-34F4CS Well:

Wellbore: ОН Design: ОН

Geo Datum: Map Zone:

Local Co-ordinate Reference:

Well NBU 922-34F4CS

GL 4989 & KB 18 @ 5007.00ft (SST 57) GL 4989 & KB 18 @ 5007.00ft (SST 57)

North Reference:

Minimum Curvature **Survey Calculation Method: Denver Sales**

UTAH - UTM (feet), NAD27, Zone 12N Project

Map System: Universal Transverse Mercator (US Survey Feet)

NAD 1927 (NADCON CONUS) Zone 12N (114 W to 108 W)

System Datum: Mean Sea Level

Site NBU 922-34L PAD, SECTION 34 T9S R22E

Northing: 14,526,606.18 usft Site Position: Latitude: 39.9909260 From: Lat/Long Easting: 2,079,795.97 usft Longitude: -109.4313570 1.01° **Position Uncertainty:** 0.00 ft Slot Radius: 13.200 in **Grid Convergence:**

Well NBU 922-34F4CS, 2085 FSL 1026 FWL **Well Position** +N/-S 0.00 ft Northing: 14,526,642.84 usft Latitude: 39.9910250 +E/-W 0.00 ft Easting: 2,079,830.07 usft Longitude: -109.4312330 0.00 ft Ground Level: 4,989.00 ft **Position Uncertainty** Wellhead Elevation: ft

ОН Wellbore **Model Name** Sample Date Declination Dip Angle Field Strength Magnetics (°) (°) (nT) BGGM2013 2/12/2014 10.79 65.79 51,982

ОН Design Audit Notes: ACTUAL Version: 1.0 Phase: Tie On Depth: 0.00 **Vertical Section:** Depth From (TVD) +N/-S +E/-W Direction (ft) (ft) (ft) (°) 0.00 0.00 0.00 51.66

Date 5/19/2014 **Survey Program** From То (ft) Survey (Wellbore) **Tool Name** Description 9.00 2,493.00 Survey #1 SDI MWD SURFACE (OH) SDI MWD SDI MWD - Standard ver 1.0.1 2,579.00 9,208.00 Survey #2 SDI MWD PRODUCTION (OH) SDI MWD SDI MWD - Standard ver 1.0.1

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9.00	0.00	0.00	9.00	0.00	0.00	0.00	0.00	0.00	0.00
179.00	0.53	21.77	179.00	0.73	0.29	0.68	0.31	0.31	0.00
FIRST SDI	MWD SURFACE	SURVEY							
241.00	0.97	24.50	240.99	1.47	0.62	1.40	0.71	0.71	4.40
334.00	1.85	358.22	333.96	3.69	0.90	2.99	1.15	0.95	-28.26
428.00	3.34	357.16	427.86	7.94	0.71	5.49	1.59	1.59	-1.13
522.00	3.87	359.80	521.68	13.85	0.57	9.04	0.59	0.56	2.81
616.00	4.40	8.94	615.43	20.58	1.12	13.64	0.90	0.56	9.72
708.00	4.82	22.71	707.14	27.64	3.16	19.62	1.28	0.46	14.97



Survey Report



US ROCKIES REGION PLANNING Company:

Project: UTAH - UTM (feet), NAD27, Zone 12N

Site: NBU 922-34L PAD Well: NBU 922-34F4CS

Wellbore: ОН Design: ОН Local Co-ordinate Reference:

Well NBU 922-34F4CS

GL 4989 & KB 18 @ 5007.00ft (SST 57) TVD Reference: MD Reference: GL 4989 & KB 18 @ 5007.00ft (SST 57)

North Reference:

Survey Calculation Method: Minimum Curvature Database: **Denver Sales**

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
803.00	5.80	34.61	801.73	35.27	7.42	27.70	1.55	1.03	12.53
898.00	7.21	43.39	896.12	43.55	14.25	38.19	1.81	1.48	9.24
992.00	8.79	45.15	989.20	52.90	23.39	51.17	1.70	1.68	1.87
1,084.00	10.46	48.14	1,079.91	63.44	34.59	66.49	1.89	1.82	3.25
1,176.00	12.58	49.49	1,170.05	75.52	48.43	84.84	2.32	2.30	1.47
1,271.00	14.42	52.89	1,262.42	89.38	65.73	107.00	2.11	1.94	3.58
1,365.00	16.36	54.29	1,353.05	104.17	85.82	131.93	2.10	2.06	1.49
1,460.00	18.20	54.03	1,443.75	120.69	108.69	160.12	1.94	1.94	-0.27
1,553.00	20.16	52.88	1,531.59	138.90	133.23	190.66	2.15	2.11	-1.24
1,647.00	21.40	50.50	1,619.47	159.58	159.38	224.00	1.60	1.32	-2.53
1,743.00	22.51	53.85	1,708.51	181.56	187.73	259.88	1.74	1.16	3.49
1,836.00	23.13	57.54	1,794.24	201.87	217.52	295.84	1.68	0.67	3.97
1,929.00	22.18	55.47	1,880.06	221.62	247.40	331.53	1.33	-1.02	-2.23
2,022.00	22.34	56.23	1,966.13	241.40	276.55	366.66	0.35	0.17	0.82
2,116.00	22.69	58.25	2,052.97	260.87	306.82	402.48	0.90	0.37	2.15
2,211.00	23.13	58.60	2,140.47	280.23	338.33	439.20	0.48	0.46	0.37
2,303.00	22.60	57.69	2,225.25	299.10	368.69	474.72	0.69	-0.58	-0.99
2,397.00	21.63	56.14	2,312.33	318.40	398.34	509.95	1.20	-1.03	-1.65
2,493.00	21.17	55.72	2,401.71	338.03	427.36	544.88	0.51	-0.48	-0.44
LAST SDI M	WD SURFACE S	URVEY							
2,579.00	19.72	54.53	2,482.29	355.19	452.01	574.87	1.75	-1.69	-1.38
FIRST SDI M	IWD PRODUCTION	ON SURVEY							
2,674.00	19.79	53.47	2,571.70	374.07	477.99	606.95	0.38	0.07	-1.12
2,769.00	19.61	52.60	2,661.14	393.32	503.57	638.96	0.36	-0.19	-0.92
2,864.00	20.05	54.62	2,750.51	412.43	529.52	671.17	0.86	0.46	2.13
2,959.00	21.02	56.16	2,839.47	431.35	556.95	704.42	1.17	1.02	1.62
3,053.00	21.02	55.89	2,927.22	450.19	584.91	738.03	0.10	0.00	-0.29
3,148.00	23.11	54.15	3,015.25	470.67	614.13	773.66	2.30	2.20	-1.83
3,243.00	24.01	51.54	3,102.34	493.61	644.38	811.61	1.45	0.95	-2.75
3,338.00	21.55	46.18	3,189.93	517.72	672.11	848.32	3.39	-2.59	-5.64
3,433.00	21.02	48.82	3,278.45	541.02	697.52	882.70	1.15	-0.56	2.78
3,528.00	19.62	51.82	3,367.54	562.10	722.88	915.67	1.84	-1.47	3.16
3,623.00	18.03	52.42	3,457.45	580.92	747.07	946.32	1.69	-1.67	0.63
3,718.00	18.65	56.50	3,547.63	598.27	771.39	976.16	1.50	0.65	4.29
3,813.00	16.02	57.92	3,638.31	613.62	795.17	1,004.33	2.80	-2.77	1.49
3,908.00	17.78	59.68	3,729.20	627.91	818.80	1,031.73	1.93	1.85	1.85
4,003.00	20.89	55.54	3,818.84	644.82	845.29	1,063.00	3.58	3.27	-4.36
4,098.00	19.80	58.08	3,907.91	662.91	872.92	1,095.89	1.48	-1.15	2.67
4,193.00	20.31	57.34	3,997.15	680.32	900.45	1,128.28	0.60	0.54	-0.78
4,288.00	19.21	56.24	4,086.56	697.90	927.33	1,160.27	1.22	-1.16	-1.16
4,383.00	17.94	54.97	4,176.61	714.98	952.31	1,190.46	1.40	-1.34	-1.34
4,478.00	15.48	56.90	4,267.59	730.31	974.91	1,217.69	2.65	-2.59	2.03
4,573.00	16.62	60.86	4,358.89	743.85	997.40	1,243.73	1.66	1.20	4.17



Survey Report



Company: US ROCKIES REGION PLANNING

Project: UTAH - UTM (feet), NAD27, Zone 12N

 Site:
 NBU 922-34L PAD

 Well:
 NBU 922-34F4CS

Wellbore: OH

Design: OH

Local Co-ordinate Reference:

TVD Reference: GL 49

North Reference:

Survey Calculation Method:

Database:

MD Reference:

Well NBU 922-34F4CS

GL 4989 & KB 18 @ 5007.00ft (SST 57) GL 4989 & KB 18 @ 5007.00ft (SST 57)

True

Minimum Curvature

Denver Sales

g					Dutubusc.			Jenver Gales		
еу										
	Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
	4,668.00	15.04	61.30	4,450.28	756.38	1,020.08	1,269.29	1.67	-1.66	0.46
	4,763.00	13.37	62.18	4,542.37	767.43	1,040.61	1,292.25	1.77	-1.76	0.93
	4,858.00	11.34	65.78	4,635.17	776.39	1,058.84	1,312.11	2.28	-2.14	3.79
	4,953.00	9.58	67.71	4,728.59	783.22	1,074.67	1,328.76	1.89	-1.85	2.03
	5,047.00	8.27	69.65	4,821.45	788.54	1,088.25	1,342.71	1.43	-1.39	2.06
	5,142.00	6.77	66.75	4,915.63	793.12	1,099.80	1,354.62	1.63	-1.58	-3.05
	5,237.00	4.57	62.35	5,010.16	797.09	1,108.30	1,363.74	2.36	-2.32	-4.63
	5,332.00	3.43	67.19	5,104.93	799.95	1,114.27	1,370.20	1.25	-1.20	5.09
	5,427.00	0.79	95.40	5,199.86	800.99	1,117.54	1,373.41	2.90	-2.78	29.69
	5,522.00	0.62	132.66	5,294.85	800.58	1,118.57	1,373.96	0.50	-0.18	39.22
	5,617.00	1.14	130.82	5,389.84	799.61	1,119.67	1,374.22	0.55	0.55	-1.94
	5,712.00	1.06	154.11	5,484.82	798.21	1,120.77	1,374.21	0.47	-0.08	24.52
	5,806.00	0.44	229.78	5,578.81	797.19	1,120.87	1,373.66	1.11	-0.66	80.50
	5,902.00	0.70	216.95	5,674.81	796.48	1,120.24	1,372.73	0.30	0.27	-13.36
	5,997.00	0.70	150.24	5,769.80	795.52	1,120.18	1,372.08	0.81	0.00	-70.22
	6,092.00	0.70	165.62	5,864.80	794.45	1,120.61	1,371.76	0.20	0.00	16.19
	6,186.00	0.44	147.96	5,958.79	793.59	1,120.94	1,371.48	0.33	-0.28	-18.79
	6,281.00	0.35	151.03	6,053.79	793.03	1,121.28	1,371.40	0.10	-0.09	3.23
	6,376.00	0.76	139.90	6,148.78	792.29	1,121.82	1,371.37	0.44	0.43	-11.72
	6,466.00	1.32	311.87	6,238.78	792.52	1,121.43	1,371.21	2.31	0.62	191.08
	6,566.00	0.91	323.01	6,338.76	793.93	1,120.10	1,371.03	0.46	-0.41	11.14
	6,661.00	0.70	313.72	6,433.75	794.93	1,119.23	1,370.97	0.26	-0.22	-9.78
	6,756.00	0.53	237.17	6,528.75	795.09	1,118.44	1,370.45	0.81	-0.18	-80.58
	6,854.00	0.62	189.97	6,626.74	794.33	1,117.96	1,369.61	0.48	0.09	-48.16
	6,946.00	0.26	103.83	6,718.74	793.79	1,118.08	1,369.36	0.71	-0.39	-93.63
	7,041.00	0.83	12.03	6,813.74	794.41	1,118.43	1,370.02	0.92	0.60	-96.63
	7,136.00	0.70	27.21	6,908.73	795.60	1,118.84	1,371.08	0.25	-0.14	15.98
	7,231.00	1.58	339.21	7,003.71	797.34	1,118.64	1,372.01	1.29	0.93	-50.53
	7,326.00	0.53	15.68	7,098.69	798.98	1,118.30	1,372.76	1.26	-1.11	38.39
	7,421.00	0.44	17.97	7,193.69	799.75	1,118.53	1,373.42	0.10	-0.09	2.41
	7,516.00	0.53	8.39	7,288.69	800.54	1,118.70	1,374.04	0.13	0.09	-10.08
	7,611.00	0.44	106.30	7,383.68	800.87	1,119.12	1,374.57	0.77	-0.09	103.06
	7,706.00	0.62	105.77	7,478.68	800.63	1,119.96	1,375.08	0.19	0.19	-0.56
	7,801.00	0.79	121.77	7,573.67	800.14	1,121.01	1,375.61	0.27	0.18	16.84
	7,895.00	0.62	104.21	7,667.67	799.68	1,122.06	1,376.14	0.29	-0.18	-18.68
	7,991.00	0.94	74.19	7,763.66	799.76	1,123.32	1,377.18	0.53	0.33	-31.27
	8,086.00	1.51	356.08	7,858.64	801.22	1,123.98	1,378.61	1.69	0.60	-82.22
	8,181.00	1.23	352.65	7,953.61	803.48	1,123.77	1,379.84	0.31	-0.29	-3.61
	8,276.00	0.88	340.79	8,048.60	805.18	1,123.40	1,380.60	0.43	-0.37	-12.48
	8,372.00	0.79	320.66	8,144.59	806.39	1,122.74	1,380.83	0.32	-0.09	-20.97
	8,466.00	1.02	4.54	8,238.58	807.73	1,122.39	1,381.39	0.75	0.24	46.68
	8,562.00	0.64	353.39	8,334.57	809.11	1,122.40	1,382.26	0.43	-0.40	-11.61
	8,657.00	0.35	329.01	8,429.56	809.89	1,122.19	1,382.57	0.40	-0.31	-25.66
	8,751.00	0.24	107.68	8,523.56	810.07	1,122.13	1,382.72	0.59	-0.12	147.52



Survey Report



US ROCKIES REGION PLANNING Company:

Project: UTAH - UTM (feet), NAD27, Zone 12N

Site: NBU 922-34L PAD Well: NBU 922-34F4CS

Wellbore: ОН Design: ОН Local Co-ordinate Reference:

Well NBU 922-34F4CS

GL 4989 & KB 18 @ 5007.00ft (SST 57) TVD Reference: MD Reference: GL 4989 & KB 18 @ 5007.00ft (SST 57)

North Reference:

Minimum Curvature **Survey Calculation Method:** Database: **Denver Sales**

De (sured epth ft)	Inclination (°)	Azimuth (°)	Vertical Depth	. N/ 0		Vertical	Dogleg	Build	Turn
8			()	(ft)	+N/-S (ft)	+E/-W (ft)	Section (ft)	Rate (°/100usft)	Rate (°/100usft)	Rate (°/100usft)
	,847.00	0.53	110.96	8,619.56	809.85	1,122.83	1,383.06	0.30	0.30	3.42
8	,942.00	0.53	143.74	8,714.56	809.34	1,123.50	1,383.27	0.31	0.00	34.51
9	,037.00	0.88	138.99	8,809.55	808.44	1,124.24	1,383.28	0.37	0.37	-5.00
9	,133.00	1.93	142.95	8,905.52	806.59	1,125.70	1,383.28	1.10	1.09	4.13
9	,153.00	1.78	151.70	8,925.51	806.05	1,126.05	1,383.22	1.60	-0.75	43.75
LAS	ST SDI MW	D PRODUCTIO	N SURVEY							
9	,208.00	1.78	151.70	8,980.48	804.55	1,126.86	1,382.92	0.00	0.00	0.00
SDI	PROJEC1	TION TO TD								

Design Annotations				
Measure		Local C	oordinates	
Depth	•	+N/-S	+E/-W	
(ft)	(ft)	(ft)	(ft)	Comment
179	.00 179.00	0.73	0.29	FIRST SDI MWD SURFACE SURVEY
2,493	2,401.71	338.03	427.36	LAST SDI MWD SURFACE SURVEY

Checked By:	Approved By:	Date:

5/19/2014 9:13:13AM COMPASS 5000.1 Build 70 Page 5

US ROCKIES REGION

General

1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well/Wellbore Information

Well	NBU 922-34F4CS RED	Wellbore No.	00
Well Name	NBU 922-34F4CS	Wellbore Name	NBU 922-34F4CS
Report no.	_	Report date	12/29/2014
Project	UTAH-UINTAH	Site	NBU 922-34L PAD
Rig Name/No.	ROCKY MOUNTAIN WELL SERVICE 1/1	Event	COMPLETION
Start date	7/9/2014	End date	1/14/2015
Spud date	2/21/2014	Active datum	RKB @5,007.00usft (above Mean Sea Level)
UWI	NW/SW/I0/9/S/22/E/34/0/0/26/PM/S/2085/W/0/1026/0/0		

1.3 General

Contractor	Job method	Supervisor	
Perforated Assembly	Conveyed method		

Summary

1.5

1.4 Initial Conditions

Fluid type		Fluid density		Gross Interval	7,138.0 (usft)-9,110.0 (usft Start Date/Time	Start Date/Time	12/29/2014 12:00AM
Surface press.		Estimate res press		No. of intervals	51	51 End Date/Time	12/29/2014 12:00AM
TVD fluid top		Fluid head		Total shots	168	168 Net perforation interval	56.00 (usft)
Hydrostatic press.		Press. difference	1	Avg. shot density	3.00 (shot/ft)	3.00 (shot/ft) Final surface pressure	
Balance Cond	NEUTRAL					Final press. date	

Intervals

2.1 Perforated Interval

Misrun How Guns Conveyed	
Misrun	
Reason	19.00 PRODUCTION
Charge weight (gram)	19.00
Charge desc. /Charge manufacturer	
Phasing (°)	3.125 120.00
Carr size (in)	3.125
Carr type /Stage No	0.410 EXP/
Diameter (in)	0.410
Misfires/ Add. Shot	
MD Shot Nbase density (usft) (shot/ft)	3.00
	7,138.0 7,139.0
MD top (usft)	7,138.0
CCL@ CCL-TS (usft)	
Formation/ Reservoir	V29/201 M E S A VERDE/
Date	12/29/201 4 12:00AM

US ROCKIES REGION

Perforated Interval (Continued)

Date	Formation/ Reservoir	(nstt)	CCL-TS (usft)	MD top (usft)	MD base (usft)	Shot N density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr type /Stage No	Carr Pl size (in)	Phasing (°)	Charge desc. /Charge manufacturer	Charge weight (gram)	Reason	Misrun How Guns Conveyed
12/29/201 4 12:00AM	M E S A VERDE/			7,157.0 7,158.0	7,158.0	3.00		0.410 EXP/	XP/	3.125	120.00		19.00	19.00 PRODUCTION	
12/29/201 4 12:00AM	M E S A VERDE/			7,190.0	7,192.0	3.00		0.410 EXP/	XP/	3.125	120.00		19.00	19.00 PRODUCTION	
12/29/201 4 12:00AM	M E S A VERDE/			7,232.0 7,234.0	7,234.0	3.00		0.410 EXP/	XP/	3.125	120.00		19.00	19.00 PRODUCTION	
12/29/201 4 12:00AM	M E S A VERDE/			7,238.0 7,240.0	7,240.0	3.00		0.410 EXP/	XP/	3.125	120.00		19.00	19.00 PRODUCTION	
_	M E S A VERDE/			7,294.0	7,295.0	3.00		0.410 EXP/	XP/	3.125	120.00		19.00	19.00 PRODUCTION	
12/29/201 4 12:00AM	M E S A VERDE/			7,334.0	7,335.0	3.00		0.410 EXP/	XP/	3.125	120.00		19.00	19.00 PRODUCTION	
_	M E S A VERDE/			7,343.0 7,344.0	7,344.0	3.00		0.410 EXP/	XP/	3.125	120.00		19.00	19.00 PRODUCTION	
12/29/201 4 12:00AM	M E S A VERDE/			7,349.0 7,350.0	7,350.0	3.00		0.410 EXP/	XP/	3.125	120.00		19.00	19.00 PRODUCTION	
_	M E S A VERDE/			7,369.0	7,370.0	3.00		0.410 EXP/	XP/	3.125	120.00		19.00	19.00 PRODUCTION	
_	M E S A VERDE/			7,393.0 7,394.0	7,394.0	3.00		0.410 EXP/	XP/	3.125	120.00		19.00	19.00 PRODUCTION	
12/29/201 4 12:00AM	M E S A VERDE/			7,426.0 7,427.0	7,427.0	3.00		0.410 EXP/	XP/	3.125	120.00		19.00	19.00 PRODUCTION	
_	M E S A VERDE/			7,438.0	7,439.0	3.00		0.410 EXP/	XP/	3.125	120.00		19.00	19.00 PRODUCTION	
12/29/201 4 12:00AM	M E S A VERDE/			7,568.0	7,569.0	3.00		0.410 EXP/	XP/	3.125	120.00		19.00	19.00 PRODUCTION	
_	M E S A VERDE/			7,588.0 7,589.0	7,589.0	3.00		0.410 EXP/	XP/	3.125	120.00		19.00	19.00 PRODUCTION	
_	M E S A VERDE/			7,633.0 7,634.0	7,634.0	3.00		0.410 EXP/	XP/	3.125	120.00		19.00	19.00 PRODUCTION	

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US ROCKIES REGION

Perforated Interval (Continued)

Date	Formation/ Reservoir	(JJsn)	CCL-TS (usft)	MD top (usft)	MD base (usft)	Shot N density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr type /Stage No	Carr size (in)	Phasing (°)	Charge desc. /Charge manufacturer	Charge weight (gram)	Reason	Misrun	How Guns Conveyed
12/29/201 4 12:00AM	M E S A VERDE/			0	0	3.00		0.410 EXP	XP/	3.125	120.00		19.00	19.00 PRODUCTION		
12/29/201 4 12:00AM	M E S A VERDE/			7,676.0	7,677.0	3.00		0.410 EXP/	XP,	3.125	120.00		19.00	19.00 PRODUCTION		
12/29/201 4 12:00AM	M E S A VERDE/			7,721.0 7,722.0	7,722.0	3.00		0.410 EXP/	XP,	3.125	120.00		19.00	19.00 PRODUCTION		
_	M E S A VERDE/			7,749.0 7,750.0	7,750.0	3.00		0.410 EXP	XP.	3.125	120.00		19.00	19.00 PRODUCTION		
_	M E S A VERDE/			7,822.0	7,823.0	3.00		0.410 EXP	XP/	3.125	120.00		19.00	19.00 PRODUCTION		
12/29/201 4 12:00AM	M E S A VERDE/			7,993.0	7,994.0	3.00		0.410 EXP	XP.	3.125	120.00		19.00	19.00 PRODUCTION		
_	M E S A VERDE/			8,054.0 8,055.0	8,055.0	3.00		0.410 EXP	XP.	3.125	120.00		19:00	19.00 PRODUCTION		
12/29/201 4 12:00AM	M E S A VERDE/			8,071.0	8,072.0	3.00		0.410 EXP/	XP,	3.125	120.00		19.00	19.00 PRODUCTION		
_	M E S A VERDE/			8,136.0	8,137.0	3.00		0.410 EXP/	XP,	3.125	120.00		19.00	19.00 PRODUCTION		
12/29/201 4 12:00AM	M E S A VERDE/			8,219.0	8,220.0	3.00		0.410 EXP/	XP,	3.125	120.00		19.00	19.00 PRODUCTION		
12/29/201 4 12:00AM	M E S A VERDE/			8,232.0 8,233.0	8,233.0	3.00		0.410 EXP	XP,	3.125	120.00		19.00	19.00 PRODUCTION		
12/29/201 4 12:00AM	M E S A VERDE/			8,258.0	8,259.0	3.00		0.410 EXP/	XP,	3.125	120.00		19.00	19.00 PRODUCTION		
12/29/201 4 12:00AM	M E S A VERDE/			8,278.0	8,279.0	3.00		0.410 EXP	XP/	3.125	120.00		19.00	19.00 PRODUCTION		
12/29/201 4 12:00AM	M E S A VERDE/			8,330.0	8,331.0	3.00		0.410 EXP/	XP,	3.125	120.00		19:00	19.00 PRODUCTION		
	M E S A VERDE/			8,362.0 8,363.0	8,363.0	3.00		0.410 EXP/	XP/	3.125	120.00		19.00	19.00 PRODUCTION		

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Perforated Interval (Continued)

Misrun How Guns Conveyed															
Reason Mi	JCTION	JCTION	CTION	JCTION	CTION	JCTION	JCTION	OCTION	JCTION						
Charge weight (gram)	19.00 PRODUCTION	19.00 PRODUCTION	19.00 PRODUCTION	19.00 PRODUCTION	19.00 PRODUCTION	19.00 PRODUCTION	19.00 PRODUCTION	19.00 PRODUCTION	19.00 PRODUCTION	19.00 PRODUCTION	19.00 PRODUCTION	19.00 PRODUCTION	19.00 PRODUCTION	19.00 PRODUCTION	19.00 PRODUCTION
Charge desc. /Charge manufacturer															
Carr Phasing (°) (in)	3.125 120.00	3.125 120.00	3.125 120.00	3.125 120.00	3.125 120.00	3.125 120.00	3.125 120.00	3.125 120.00	3.125 120.00	3.125 120.00	3.125 120.00	3.125 120.00	3.125 120.00	3.125 120.00	3.125 120.00
arr type /Stage No															
Diar	0.410 EXP/	0.410 EXP/	0.410 EXP/	0.410 EXP/	0.410 EXP	0.410 EXP/	0.410 EXP/	0.410 EXP/	0.410 EXP/						
Shot Misfires/ density Add. (shot/ft) Shot	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
MD MD top base (usft)	8,382.0 8,383.0	8,396.0 8,397.0	8,413.0 8,414.0	8,428.0 8,429.0	8,449.0 8,450.0	8,485.0 8,486.0	8,550.0 8,551.0	8,589.0 8,590.0	8,607.0 8,608.0	8,646.0 8,647.0	8,687.0 8,688.0	8,736.0 8,737.0	8,777.0 8,779.0	8,864.0 8,865.0	8,917.0 8,918.0
(usft) (usft)															
Formation/ CCL@ Reservoir (usft)	M E S A VERDE/	M E S A VERDE/	M E S A VERDE/	M E S A VERDE/	M E S A VERDE/	M E S A VERDE/	M E S A VERDE/	M E S A VERDE/	M E S A VERDE/	M E S A VERDE/	M E S A VERDE/	M E S A VERDE/	M E S A VERDE/	M E S A VERDE/	M E S A VERDE/
Date	12/29/201 4 12:00AM	_	_				_	_	_	_		12/29/201 4 12:00AM		_	_

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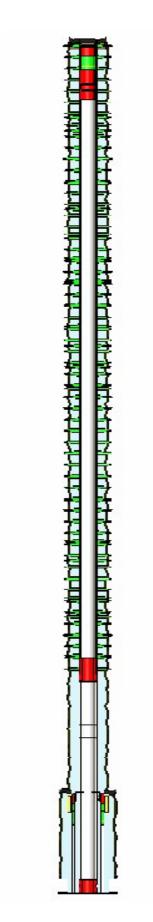
February 11, 2015 at 2:09 pm

2.1 Perforated Interval (Continued)

sr.													ĺ		
Misrun How Guns															
Misrun															
Reason		19.00 PRODUCTION		19.00 PRODUCTION			19.00 PRODUCTION			19.00 PRODUCTION			19.00 PRODUCTION		
Charge weight	(gram)	19.0		19.0			19.0			19.0			19.0		
Charge desc.	manufacturer														
Phasing (°)	<u> </u>	120.00		120.00			120.00			120.00			3.125 120.00		
Carr	(ii)	3.125		3.125			3.125			3.125			3.125		
Carr type /Stage No		0.410 EXP/		0.410 EXP/			0.410 EXP/			0.410 EXP/			0.410 EXP/		
Diameter (in)		0.410		0.410			0.410			0.410			0.410		
MD Shot Misfires/ base density Add.	Shot														
MD Shot Misfires base density Add.	(shot/ft)	3.00		3.00			3.00			3.00			3.00		
MD	(usft) (usft) (shot/ft)	8,950.0 8,951.0		8,988.0 8,989.0			9,042.0 9,043.0			9,080.0 9,081.0			9,108.0 9,110.0		
MD	(mstt)	8,950.0		8,988.0			9,042.0			9,080.0			9,108.0		
CCL-TS															
(nsft)															
Formation/ CCL@ CCL-TS MD Reservoir (usft) top		12/29/201 M E S A	ים פרם פרם	MESA	4 VERDE/		MESA	4 VERDE/		12/29/201 M E S A	VERDE/		12/29/201 M E S A	VERDE/	
Date		12/29/201	12:00AM	12/29/201	4	12:00AM	12/29/201	4	12:00AM	12/29/201	4	12:00AM	12/29/201	4	12:00AM

3 Plots

3.1 Wellbore Schematic



				U	S ROC	KIFS R	EGION	
							ary Report	
Well: NBU 922-3	34F4CS RED						Spud date: 2/2	1/2014
Project: UTAH-U	JINTAH		Site: NBL	J 922-34L	. PAD			Rig name no.: ROCKY MOUNTAIN WELL SERVICE 1/1
Event: COMPLE	TION		Start date	e: 7/9/201	4			End date: 1/14/2015
Active datum: RI Level)	KB @5,007.00	usft (above Mean S	ea	UWI: N\	N/SW/0/9	/S/22/E/	34/0/0/26/PM/S/20	85/W/0/1026/0/0
Date	Time Start-Ei	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation
7/3/2014	-							
7/9/2014	8:00 - 9	:30 1.50	SUBSPR	52	В	P		FILL SURFACE CSG. MIRU CAMERON QUICK TEST. PRESSURE TEST CSG & SURFACE 1ST PSI TEST T/ 7000 PSI. HELD FOR 15 MIN LOST -38 PSI. NO COMMUNICATION SURFACE HAS SLIGHT MIGRATION BLEED OFF PSI. PRESSURE TEST 8 5/8 X 4 1/2 TO 512 PSI HELD FOR 5 MIN LOST -317 PSI, BLED PSI OFF, REINSTALLED POP OFF SWIFN 340 PSI ON SURFACE CASING FILLED SURFACE WITH 1 BBL H2O
12/23/2014	8:00 - g	:00 1.00	SUBSPR	52	В	Р		FILL SURFACE CSG. MIRU CAMERON QUICK TEST. PRESSURE TEST CSG & FRAC VALVES 1ST PSI TEST T/ 7000 PSI. HELD FOR 15 MIN LOST -53 PSI. NO COMMUNICATION OR MIGRATION WITH SURFACE CSG BLEED OFF PSI.
	9:00 - 10	0:00 1.00	SUBSPR	37	E	Р		PERF STG 1)PU 3 1/8 EXP GUN, 19 GM, .40 HOLE SIZE. RIH PERFWELL, AS PER PERF DESIGN. POOH. SWIFW
12/29/2014	6:30 - 6	:45 0.25	FRAC	48		Р		HSM-JSA
	6:45 - 1	7:30 10.75	FRAC	36	Н	P		FRAC STG #1) WHP 1609 PSI, BRK 1854 PSI @ 4.1 BPM. ISIP 2609 PSI, FG. 0.73 ISIP 2661 PSI, FG. 0.73, NPI 52 PSI, X/O TO WL. SET CBP & PERF STG #2 AS DESIGNED, X/O TO FRAC. FRAC STG #2) WHP 964 PSI, BRK 2245 PSI @ 4.9 BPM. ISIP 1347 PSI, FG. 0.59 ISIP 2777 PSI, FG. 0.76, NPI 1430 PSI, X/O TO WL. SET CBP & PERF STG #3 AS DESIGNED, X/O TO FRAC. FRAC STG #3) WHP 1726 PSI, BRK 4670 PSI @ 4.8 BPM. ISIP 2224 PSI, FG. 0.69 ISIP 2601 PSI, FG. 0.74, NPI 377 PSI, X/O TO WL.
12/30/2014	6:30 - 6	:45 0.25	FRAC	48		Р		SET CBP & PERF STG #4 AS DESIGNED, SWI, SDFN. HSM-JSA

2/11/2015 2:07:33PM 1

				U	S ROC	KIES R	EGION	
				Opera	tion S	Summa	ary Report	
Vell: NBU 922-3	34F4CS RED						Spud date: 2/2	21/2014
Project: UTAH-U	JINTAH		Site: NBU	J 922-34L	. PAD			Rig name no.: ROCKY MOUNTAIN WELL SERVICE 1/1
vent: COMPLE	ETION		Start date	: 7/9/201	4			End date: 1/14/2015
active datum: Ri evel)	KB @5,007.00usft (at	oove Mean Se	ea	UWI: N\	W/SW/0/9	9/S/22/E/3	34/0/0/26/PM/S/2	:085/W/0/1026/0/0
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation
	6:45 - 17:30	10.75	FRAC	36	Н	P		FRAC STG #4) WHP 1934 PSI, BRK 3513 PSI @ 4.7 BPM. ISIP 2523 PSI, FG. 4.7 ISIP 2647 PSI, FG. 0.76, NPI 124 PSI, X/O TO WL. SET CBP & PERF STG #5 AS DESIGNED, X/O TO FRAC. FRAC STG #5) WHP 703 PSI, BRK 2974 PSI @ 4.8 BPM. ISIP 1761 PSI, FG. 0.66 ISIP 2430 PSI, FG. 0.75, NPI 669 PSI, X/O TO WL. SET CBP & PERF STG #6 AS DESIGNED, X/O TO FRAC. FRAC STG #6) WHP 513 PSI, BRK 2505 PSI @ 4.7 BPM. ISIP 1330 PSI, FG. 0.64 ISIP 2351 PSI, FG. 0.75, NPI 1021 PSI, X/O TO WL. SET CBP & PERF STG #7 AS DESIGNED, X/O TO FRAC. FRAC STG #7) WHP 212 PSI, BRK 2395 PSI @ 4.7 BPM. ISIP 1518 PSI, FG. 0.64 ISIP 1926 PSI, FG. 0.7, NPI 408 PSI, X/O TO WL. SET KILL PLUG.
								RDMO WL & FRAC EQUIP. TOTAL FLUID= 10242 BBLS TOTAL SAND= 216288 LBS
1/13/2015	7:00 - 7:15	0.25	DRLOUT	48		Р		HSM, ROADING RIG
	7:15 - 11:30	4.25	DRLOUT	30	A	Р		ROAD RIG FROM NBU 1022-513 PAD TO THE 922-34L PAD, MIRU ON THE RED WELL NBU 922-34F4CS, SPOT EQUIP, N/D WELL HEAD, N/U BOPS, R/U TBG EQUIP, MIRU SLAUGH PIPE WRANGLER.
	11:30 - 11:30	0.00	DRLOUT	31	I	Р		P/U 3-7/8 BIT W/ POBS PKG, TALLEY AND P/U 224 JNTS 2-3/8 L-80 TBG, TAG @=7,080', P/U POWER SWIVEL, PREP TO DRILL OUT IN AM.

2/11/2015 2:07:33PM 2

Р

7:00 - 7:15

0.25

DRLOUT

1/14/2015

HSM, PRESSURE TESTING

<u> Sundry Number: 60885 API Well Number: 43047535060000</u> **US ROCKIES REGION Operation Summary Report** Well: NBU 922-34F4CS RED Spud date: 2/21/2014 Project: UTAH-UINTAH Site: NBU 922-34L PAD Rig name no.: ROCKY MOUNTAIN WELL SERVICE 1/1 **Event: COMPLETION** Start date: 7/9/2014 End date: 1/14/2015 UWI: NW/SW/0/9/S/22/E/34/0/0/26/PM/S/2085/W/0/1026/0/0 Active datum: RKB @5,007.00usft (above Mean Sea Date Phase Code P/U Operation Time Duration Sub MD from Start-End (hr) Code (usft) 7:15 - 17:00 9.75 DRLOUT Р SITP=0#, SICP=0# OPEN WELL PRESSURE TEST BOPS [NO LEAKS] BREAK CIRC W/ RIG PUMP DRILL THROUGH HALIBURTON PLUG @=7,080' IN 10 MIN W/ 200# PRESSURE INCREASE. PLUG #2] CONT. TO RIH, TAG @=7,237' [25' FILL] C/O AND DRILL THROUGH HALIBURTON PLUG @=7,262' IN 6 MIN W/ #300 PRESSURE INCREASE. PLUG #3] CONT. TO RIH, TAG @=7,446' [30' FILL] C/O AND DRILL THROUGH HALIBURTON PLUG @=7,476' IN 5 MIN W/ 600# PRESSURE INCREASE. PLUG #4] CONT. TO RIH, TAG @=7,808' [45' FILL] C/O AND DRILL THROUGH HALIBURTON PLUG @=7,853' IN 10 MIN W/ 100# PRESSURE INCREASE. PLUG #5] CONT. TO RIH, TAG @=8,279' [30' FILL] C/O AND DRILL THROUGH HALIBURTON PLUG @=8,309' IN 5 MIN W/ 750# PRESSURE INCREASE. PLUG #6] CONT. TO RIH, TAG @=8,491' [25' FILL] C/O AND DRILL THROUGH HALIBURTON PLUG @=8,516' IN 6 MIN W/ 800# PRESSURE INCREASE. PLUG #7] CONT. TO RIH, TAG @=8,756' [45' FILL] C/O AND DRILL THROUGH HALIBURTON PLUG @=8,801' IN 8 MIN W/ 900# PRESSURE INCREASE. CONT. TO RIH C/O TO PBTD @=9,153' CIRC WELL, L/D 21 JNTS, P/U HANGER STRIPPED IN WELL, LANDED TBG W/ 268 JNTS 2-3/8 L-80 TBG @=8,521.88', R/D TBG EQUIP, R/D PIPE WRANGLER, N/D BOPS DROP BALL, N/U WELL HEAD, PUMP BIT OFF W/ 2,400# PRESSURE TURN OVER TO F/B CREW. RDMO KΒ 24.00 4-1/2 HANGER 2.20 268 JNTS 2-3/8 L-80 8.494.85 XN NIPPLE 2.20

2/11/2015 2:07:33PM 3

RECEIVED: Feb. 12, 2015

8,521.88

EOT @=